



The most satisfactory preparation for making Junket is

ARMOUR'S Junket Powder

"Chemist and Druggist,"

May 14th:

Armour's Junket Pow-Der. — This engraving reproduces in reduced facsimile, but without the colour, a striking showcard which Messrs. Armour & Co., Ltd., Atlantic House, Holborn Viaduet, London, E.C., are giving to retailers of their junket powder. Dark green tones prevail on the card, which measures 15 in. by 8 in.



"British & Colonial Druggist," May 13th:

Armour's Junket Pow-Der.—A junket powder which turns out with eertainty and reliability that delectable domestic commodity. In order to stimulate the sale of this preparation the firm issue a most handsome and striking showcard. This is a line that can be made to appeal to even the most fastidious.

An altractive showcard presented with each order for at least three boxes.

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The neat, attractive package, with its unique measuring cup, and the excellence of the preparation itself all combine to make Armour's Junket Powder a quick and remunerative seller, yielding the Chemist a good profit. Price per box:

4-



THE SACCHARIN CORPORATION

LIMITED.

OFFICES: 10 ARTHUR STREET WEST, LONDON, E.C.

June 25, 1910.

NOTICE

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Crystallose.—440 times sweeter than pure Cane Sugar.

N.B.—The last Three Strengths we soluble in Cold Water.

THE SACCHARIN CORPORATION, LIMITED, are the owners of All Patents for the United Kingdom and Colonies, except India and Canada, for the commercial manufacture of Saccharin, and their Saccharin is the only Saccharin that can be purchased without RISK (FLEGAL PROCEEDINGS or the necessity of ANY INDEMNITY.

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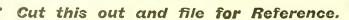
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Page

TO ADVERTISEMENTS IN THIS ISSUE.

The Arabic numerals (1 to 38) in this Index refer to Advertisements in front of the literary pages; the Advertisements following the literary pages are numbered in Roman numerals (I to XXXII), Page

Page	Page
	De St. Dalmas & Coxxiv
Aerators, Ltd	Duncan, Flockhart & Coxiii
Alabastine Co. (British), Ltd. xxx	
Allcock's Plastersxxiii	East, W
Allen & Hanbury's, LtdCover	Ecsolent Compounds, Ltdxxix
Allen, Stafford & Sons	Ecsolent Compounds, Ltdxxix Edwards' 'Harlene'' ('o 34
Alliance Drug & Chemical Coxv	Evans Sons Lescher & Webb,
American Animal Therapy,	Ltdxix
American Animal Therapy, Co., Ltd	Exchange ColumnCol, Supp.
Anglo-American Drug Co., Ltd. ix	Farina, J. M
Armour & Co., Ltd 1	Farmer F & Co vyviii
•	Farmer, F., & Coxxviii Faulding, F. H., & Covii
Bailey, W. H., & Son, Ltdxxii	Fentiman, A. G xxviii
Baiss Bros. & Stevenson,	Fentiman, A. J., & Coxxix
Baiss Bros. & Stevenson, Ltd	Field, C. W
Barker, F. Hxxix	Fink, F., & Co,xxviii
Barnett & Foster 18	Fletcher, Fletcher & Co., Ltd.
Beisly, W. Gxxix	Text 939
Bell, J., Hills & Lucas, Ltdxvi	Frame Food Co., Ltd 23
Benger's Food, Ltd	Frowein, Cxxx
Bennett, E., & Son, Ltdxx	Fullward D. I. & Dland 07
Bennett, Sons & Shears, Ltd. 13	Fullwood, R. J., & Bland 23
Berdoe & Fish Col. Supp.	Galen Manfg. Co., Ltdxxix
Berkefeld Filter Co., Ltd 20	Gardnerxxix
Berliner, Arthurxxiii	Gardner, Wm., & Sons (Glou- eester), Ltd
Bernhardi, Ixvii	eester), Ltd 36
Betts & Co., Ltd	Gathergood, Drxii
Birmingham College of Phar-	Gimber, W., & SonCol. Supp.
macy 10	Glasgow School of Pharmacy 10
Blackie, Rvi	Guest, T., & Co 23
Botwright & Grey 14	Halder, E. Cxxix
Boulton, J., & Co. (1909) 36	Horles C 14
Bowling & Son	Harker, C. R., Stagg & Morgan,
Brand & Co., Ltd 23	Ltd 24
Brott & Co Col Sunn	Harvey & Co. (Dublin), Ltd 36
Bristol-Myers Co 17	Havnes G & Co
Brunner, Mond & Co., Ltdiii	Henry T & W
Bristol-Myers Co. 17 Brunner, Mond & Co., Ltdii Burge, Warren & Ridgley. Ltd. xxiy	Haynes, G., & Co. XXIX Henry, T. & W. Xvi Herpicide, The, Co. 30
Ltdxxiv	Hoffmann La Roche Chemical
Burrough, J., LtdText 939	Works Ltd
Burroughs Wellcome & Co 37	Works, Ltdxii Hovenden, R., & Sons, Ltd 28
Bush, W. J., & Co., Ltd 19	Howarth & Fair 14
	Howarth & Fair
Cartwright, W. B., Ltdviii	Hughes, E. Griffithsxxix
Cartwright, W. B., Ltdviii	Hull Oil Mufg. Co., Ltdx
Chesebrough Mfg, Co 38	Huntley, Boorne & Stevens,
Chiris, Antoine	Ltd 12
Christie, Malcolm & Coxxviii	Hutchinson, The, Coxxvi
Christy, T., & Co38, xxix	
Coleman & Co., Ltd22	Ichthyol Coiv Ideal Bottle 4
Congreve, G. Tvi	Ingram & Royle, Ltd
Cullwick, H. Exxviii	Iron Ox Remedy Co., Ltdxi
Daggett & Ramsdell	Isaaes, I., & CoCol. Supp.
Daisy, Ltd	Jackson, T
Danysz Virus Ltd	Jackson, W. & Hxxxi
Danysz Virus, Ltd	Jewsbury & BrownText 939
Davies, Sons & Co 9	Johnsen & Jorgensenxvii
Davol Rubber Coxxii	Kay Bros., Ltdxxxi
Day & Sons (Crewe), Ltdxvi	Keane, T 12
Deansmere Manfg. Coxxx	Keating Thomas
Degen, F. A	Keating, Thomasxxx Kilner Bros., Ltdxxv
	Attitude apropri and a community of

Page	Page
xxiv	Talan The
xiii	Lautier Fils 3 Leeds College of Pharmacy 10 Lescol Perfumery Co
14	Leeds College of Pharmacy 10
zizz	Lescol Perfumery Co
34	Levermore, A., & Coxxviii
ъ,	Linton, Hubbard & Andrewv
xix	Liverpool Lint Coxxi
Supp.	Lloyd, A., & Co
32	Lloyd, A. S
xxviii	Lorithouse & Saltiner Za
vii	Liverpool Lint Co. xxi Lloyd, A., & Co. 25 Lloyd, A. S. 25 Lofthouse & Saltmer 25 London College of Chemistry 10
xxviii	McAdam & Tuckniss Col. Supp.
xxix	McAdam & Tuckniss Col. Supp Macfarlan, J. F., & Co
17	Manchester College of Phar-
xxviii	maey 10
d.	Marmola Tabletsiv
xt 939	Maw, S., Son & Sonsxxxii
23	May, Roberts & Co., Ltd Corer
X X X	Melrose-Drover, Ltd 22
23	Miller A. C. T. 3
.xxix	Millar, A., & Co., EtcXXVI
xxix	Witchell N. W. S. Sans T.t.d. 14
u-	Montgomorio & Co. Itd.
36	Morrie A C
xii	Muter's (South London) School
Supp.	of Pharmacy 10
Supp. 7 10 23	May, Roberts & Co., Ltd. Core Melrose-Drover, Ltd. 22 Merek, E. xvi Millar, A., & Co., Ltd. xxvi Mills, H. 11 Mitchell, N. W., & Sons, Ltd. 14 Montgomerie & Co., Ltd. ii Morris, A. G. xi Mutter's (South London) School of Pharmacy 10 Nathani, M. R. xxviii
25	National Cash Register Co. Ltd. 13
xxix	National Cash Register Co., Ltd. 13 Newball & Mason 20
14	Newsome C. vvii
ın,	Newsome, Cxvii Nichols Chem, Co., Ltdx
in, 24 36	Nitsche & Gunther Optical Co., Ltd
36	Ltd 15
xxxix	Northern College of Pharmacy 10
xvi	Oakey, J., & Sons, Ltdxx
30	Odol Chemical Works, Ltdi
al xii	Old Fort Chemical Coxviii
28	Odol Chemical Works, Ltd
14	Orridge & Co Col. Supp.
14 xiii	Papier Poudré, Ltd
Zizz.	Phillips, Charles H., Chemical
z	Co. Text 939 Pindar, J. W., & Co. xxviii Piver, L. T. 25 Pomeroy, Mrs., Ltd. 24 Potter & Clarke, Ltd. xxv
s,	Pindar, J. W., & Coxxviii
s, 12 xxvi	Piver, L. T 25
.xxvi	Pomeroy, Mrs., Ltd 24
iv	Potter & Clarke, Ltdxxi
4 17 xi	Quelen, H. C., & Co 50
17	Raimes & Coix
xi	Randall & Son, Ltd 26
Supp.	Ransom, Wm., & Son 33
27	Resinol Chemical Cov
izzz.	Riedel, The J. D. Co xviii
et 939	Robare's Aureolinexx
xxvii	Randall & Son, Ltd. 26 Ransom, Wm., & Son 33 Resinol Chemical Co. v Riedel, The J. D. Co. vii Robare's Aureoline xx Rogers & Co. 11
izzzz.	Saccharm Corporation Ltd 2
12	Sanitas Co., LtdText 939
Z Z Z	Sankyo & Coiv
XXV	Sanitas Co., Ltd. Text 939 Sankyo & Co. iv Scheller, E., & Co. viii

Subjurnal & C.
Schimmel & Co .vii
Schliemann's Oil and Ceresme 7 Co., Ltd. 7 Schutze, F., & Co. xvv Scrubb & Co. 50 Shaw, H., & Co. 26 Shirley Bros. Ltd. 55 Singleton & Cole. Ltd. xxix Slack, B. Col. Supp. Smith, B. A., & Co. 1x Smith, J. H., & Co. xxx Smith, W. H., & Sons Co. xx Smith, W. H., & Sons Co. xx Sciété des Forces Motrices et Usines de l'Arve 1v
Co., Ltd
Schutze, F., & Co XXVI
Scrubb & Co. 50
Shaw H. & Co. 96
etial of the
зиркон « Co, 35
Shirley Bros., Ltd 35
Singleton & Cole, Ltdxxix
Slack, B Col. Sunn.
Smith R A & Co is
Smith I II f. Co.
2 MICH, J. H., & CO XXX
Smith's, John E., Sons Co xx
Smith, W. H., & Son Text 939
Société des Forces Motrices et
Usines de l'Arve
Solport Bros syr
Societé des Forces Motriees et Usines de l'Arve
Bouth of England College of
Pharmacy 10
Standard Tablet & Pill Co. Cover
Stedman, Dr xxviii
Stern-Sonnehorn Oil Co 1 td 2
Stovenson H & Sons ltd verili
Pith and Dr. D. D.
Stnamer, Dr. R 17
Stokes, F. J., Machine Co 13
Strong, Christyxxxi
Surgical Hosiery Co. Ltd xxiii
Swales T
Stevenson, H., & Sons, I.td. xxviii Sthamer, Dr. R
Thompson Bros 12
Tombinson T. & Con. Col. Cur.
Tomtinson, 1., & Son ot. Supp.
Tominson & Haywood, Ltd 36
Tompkins, J., Ltdxxix
Tve, J., & Sonxxv)
Tyrer, Thos., & Co., Ltd vii
Thompson Bros. 12 Thompson Bros. 12 Tomlinson, T., & SonCol. Supp. Tomlinson & Ilaywood, Ltd. 36 Tompkins, J., Ltd. xxix Tye, J., & Son
Van Abbott, G., & Sons xxviii Vibert, F 28
Vibert, F
Viscose Development Co., Ltd. 35
Wardale & Co., Ltd
Wardale & Co., Ltdxxix
Warne, W., & Coxxix
Washington Chem. Co., Ltd. viii
Wattenbach Oscar vyviii
White A & Sone iv
William T., C. Solls
Wilcox, Joseph & Co Text 959
Willows, Francis, Butler &
Thompson, Ltdxii
Wilson Veterinary Medicine Co.
xxviii
Wood V
W - 1 - W + 0
Woods, W., & Son 55
Wolff, F., & Sohn 25
Wolfensberger, J. H., & Co xvi
Wright, Layman & Umney
Wood, V.
article in the control of the contro
Yorkshire Steel Co 29
Yorkshire Steel Co
Zeal, G. H. 14 Zimmermann, A. & M. xvi Zimmermann, C., & Co. vi
Zimmermann, A. & M xvi
Zimmermann, C., & Co,vii
,

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Burroughs Wellcome & Co.
Cristy, T., & Co.
Cook, E., & Co., Ltd.
Eueryl, Ltd.
Hall & Ruckel
Jewsbury & Brown
Lambert Pharmacal Co.
McKesson & Robbins
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Standard Tablet & Pill Co.
Weods, W., & Son
Weolley, J., Sons & Co., Ltd. DEXTRINE

Fink, F., & Co.

DIABETIC BREAD AND FOOD Brusson Jeune Callard & Co. Van Abbott, G., & Sons

DIGESTIVE PRODUCTS

REESTIVE PRODUCTS
Armour & Co., Ltd.
Benger's Food, Ltd.
Fairchild Bros. & Foster
Parke, Davis & Co.
Squire & Sons Zimmermann, C., & Co.

DISINFECTANTS Baiss Bros. & Stevenson, Ltd.
Baiss Bros. & Stevenson, Ltd.
Burt, Boulton & Haywood, Ltd.
Condy & Mitchell, Ltd.
Cook, E., & Co., Ltd.
Jeyes Sanitary Compounds, Ltd.
Sanitas Co., Ltd.
Tomlinson & Hayward, Ltd.
Willows, Francis B. & T.
Wright, Layman & Umncy, Ltd.

DOUCHES Reuter, R. J.

DRUGGISTS' SUNDRIES Ayrton, Saunders & Co., Ltd. Barclay & Sons, Ltd. Barriay & Sons, Ltd.
Berliner, Arthur
Burge, Warren & Ridgley
Bush, H. W., & Co., Ltd.
Christy, T., & Co.
Edwards, W, & Son
Evans Sons Lescher & Webb, Ltd. Evans Sons Lescher & Webb, Ltd.
Hewlett, C. J., & Sons
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Moores, Charles L.
Newbery, F., & Sons, Ltd.
Poths, H., & Co.
Quelch, H. C., & Co.
Reuter, R. J.
Sangers'
Schutze, F., & Co.
Shirley Bros., Ltd.
Solport Bros.
Southall Bros. & Barclay, Ltd.
Tidman & Son, Ltd.
Toogood, W., Ltd.
Wattenbach, O.
Woolley, J., Sons & Co.
RUGS, CRUDE

DRUGS, CRUDE
Baiss Bros. & Stevenson, Ltd.
Bernhardi, I.
Brook, Parker, & Co., Ltd.
Gathergood's Exor.
Potter & Clarke, Ltd.
Ransom, W., & Son
Salle, H., & Cie.

DYES Judson, D., & Son Whitaker & Co. (Hat)

EAU DE COLOGNE Farina, J. M.
Farina, J. M. (No. 4)
Fickus, Courtenay & Co.
McCracken, J. & R.
Sohutze, F., & Co.

EDUCATIONAL INSTITU-TIONS

Bath and West of England College of Pharmacy
Birmingham and Midland College
Edinburgh Central School
Glasgow School of Pharmacy
Harker, Charles
Leeds College of Pharmacy
Liverpool School of Pharmacy
Liverpool School of Pharmacy
Manchester College of Pharmacy
Muter's (So. Lond.) School
North of England School
Northern College of Pharmacy
South of England College
E-ASTIC HOSIERY
Ayrton, Saunders & Co., Ltd.
Burge, Warren & Ridgley, Ltd.
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Surgical Hosicry Co., Ltd.
Wood, Vincent
EFFERVESCENT PREPS. College

Wood, Vincent

EFFERVESCENT PREPS.
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Bishop, Alfred, Ltd.
Blackie, R.
Bristol Myers Co.
British Drug Houses, Ltd.
Butler, T. E., Son, & Co.
Cox, A. H. & Co., Ltd.
Davies, Sons & Co.
Evans Sons & Co.
Evans Sons Lescher & Webb, Ltd
Goodall, Backhouse & Co.
Guest, Thos., & Co.
Howards & Sons, Ltd.
Kutnow, S., & Co., Ltd.
Newball & Mason
Potter & Clarke, Ltd.
Shirley Bros., Ltd.
Standard Tablet & Pill Co.
Sturge, John & E.
Tyrer, T., & Co., Ltd.
Wright, Layman & Umney, Ltd. EFFERVESCENT PREPS.

EMBROCATIONS Chameleon Oil Co., Ltd. emery and cloth Oakey, J., & Sons, Ltd.

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Wright, Laymus

ENEMAS
Bailey, W. H., & Son
Burge, Warren & Ridgley, Ltd.
Davol Rubber Co.
Maw, S., Son & Sons
Toogood, W., Ltd.
Warne W., & Co., Ltd.

ENTOMOLOG. APPARATUS Watkins & Donoaster

EPSOM SALTS Howards & Sons, Ltd.

ESSENCES, CONCRETE Lautier Fils

ESSENCES, SOL. AND FRUIT Alliance Drug & Chem. Co. Barnett & Foster Boake, Roberts & Co., Ltd. Bush, W. J., & Co., Ltd. Hay, Wm., Ltd. Lautier Fils London Essence Co. Newball & Mason Stevenson & Howell, Ltd. Zimmermann, A. & M.

ETHERS THERS
Baiss Bros. & Stevenson, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co. Ltd.
White, A., & Sons

EUCALYPTUS OIL

Baiss Bros. & Stevenson, Ltd.

British Drug Houses, Ltd.

EXTRACT OF HERBS Newball & Mason Potter & Clarke, Ltd.

EXTRACTS (MEDICINAL) XTRACTS (MEDICINAL)
Allen, Stafford, & Sons, Ltd,
Evans Sons Lescher & Webb
Gathergood's Exor.
Hewlett, C. J., & Son, Ltd,
Parke, Davis & Co.
Ransom, W., & Son
Royal Pharmaceutical Trading Society

FEEDING BOTTLES
Breflit, E., & Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Hovenden, R., & Sons, Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
Sangers'
Solport Bros.
Southall Bros. & Barclay, Ltd.

FERTILISERS Neues Kalisyndikat Voss, Walter, & Co.

FILTERS
Berkefeld Filter Co., Ltd.

FINGER STALLS Solport Bros. FLESH GLOVES

Sangers Solport Bros.

FLYCATCHERS
Alabastine Co. (British), Ltd.
Deansmere Manfg. Co.
Ford, Shapland & Co.
Frowein, C.
Jackson, W. & H.
Kay Bros., Ltd.
Smith, J. H., & Co.
Strong Christy
Tunbridge & Wright

FOODS, INFANTS'
Allen & Hanburys, Ltd.
Benger's Food, Ltd.
Frame Food Co., Ltd.
Lofthouse & Saltmer
Natural Food Co., Ltd.
Willows, Francis B. & T.

FRUIT SYRUPS Idris & Co., Ltd.

FOODS, SPECIAL

OODS, SPECIAL
Allen & Hanburys, Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
Brusson Jenne
Callard & Co.
Cox, Arthur H., & Co., Ltd.
Fairchild Bros. & Foster
Frame Food Co., Ltd.
Menley & James, Ltd.
Natural Food Co., Ltd.
Wander, A., Ltd.

FULLER'S EARTH Mumford, G. S., & Sons

FUMIGATORS Sanitas Co., Ltd.

GLAUBER'S SALT Bramwell, E., & Son Howards & Sons, Ltd.

GLYCERIN Meffert, Hermann & Co. Price's Patent Candle Co. Steven, Andrew, & Son

GLYCERIN PLANT Forshaw, E., & Son, Ltd. GLYCEROPHOSPHATES Merck, E.

GOLD PAINT Judson, D., & Son

GRINDERS, DRUG, ETC. Allen, Stafford, & Sons, Ltd. Goodall. Backhouse & Co. Willows, Francis B. & T.

GUMS Fink, F., & Co. Kidston, W. M., & Co.

HAIR DYES Blackie, Robert Harker, Stagg & Morgan, Ltd.

HAIR PREPARATIONS Bates, F. W. Blackie, Robert Blackie, Robert Chesebrough Manfg. Co. Edwards' "Harlene" Co. Harker, Stagg & Morgan, Ltd. Herpicide Co. John Strange Winter Robarc's Aureoline To-Kalon Mnfg. Co., Ltd.

HAT DYES Whitaker & Co.

HAT RENOVATORS Christy, Thos., & Co. **HEATING APPARATUS** Clark's Syphon Stove Co., Ltd.

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Brook, Parker & Co., Ltd.
Fotter & Clarke, Ltd.
Ransom, W., & Son

HOMOEOPATHIC MEDICINES Ashton & Parsons, Ltd. Epps, James, & Co. Keene & Ashwell, Ltd. Leath & Ross

HOTELS Esmond Hotel Kingsley Hotel
Thackerey Hotel

HOT-WATER BOTTLES
Berliner, Arthur
Burge, Warren & Ridgley
Galen Mfg. Co., Ltd.
Hutchinsou Co. Hutchinson Co.
May, Roberts & Co.
Newbery, F., & Sons, Ltd.
Southall Bros. & Barclay
Tompkins, James, Ltd.

HYDROGEN PEROXIDE
Way & Bolon Ltd.

May & Baker, Ltd. Sanitas Co., Ltd. Tyrer, T., & Co., Ltd.

HYPOPHOSPHITES May & Balier, Ltd. Tyrer, T., & Co., Ltd.

INHALERS Maw, S., Son & Sons

INK POWDERS Williams Bros. & Co.

INSECT POWDER Shirley Bros., Ltd. INSECTICIDES Christy, Thos. & Co. Tomlinson & Hayward, Ltd. Voss, Walter, & Co.

INVALID CHAIRS
Ellmore, W. T., & Son, Ltd.

SODINE AND SODIDES Howards & Sons, Ltd. Morson, T., & Son

IRISH MOSS
Cumming, J. W.
IRON PREPARATIONS

ITROSYL Fletcher, Fletcher & Co.

JARS AND POTS ARS AND POTS
Breffit, E., & Co., Ltd.
Bnsh, H. W., & Co., Ltd.
Johnsen & Jorgensen, Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
Poths, H., & Co.
Reuter, R. J.
Stipendum Stopper Co.
Toogood, W., Ltd.

JUNKET POWDER Armour & Co., Ltd. Fullwood, R. J., & Bland

LACTIC FERMENT PREPS. L Allen & Hanburys, Ltd. Cox, Arthur H., & Co., Ltd. Davies, Sons & Co. Evans Sons Lescher & Webb, Ltd. Davies, Sons & Co.
Evans Sons Lescher & Web
Lloyd, T. Howard, & Co.
Martindale, W.
Parke, Davis & Co.
Standard Tablet Co.
Wilcox, Jozeau & Co. LANOLINE

Burroughs Wellcome & Co.

LARD Ewen, J., & Sons LEATHER DYES Williams Bros. & Co.

LIME JUICE AND CORDIAL Evans Sons Lescher & Webb Goodall, Backhouse & Co.

LINSEED, CRUSHED, ETC. Allen, Stafford, & Sons Mumford, G. S., & Sons

LINTS
Liverpool Lint Co. Robinson & Sons, Ltd.
Taylor, W. G.
Vernon & Co., Ltd.

LiQUORICE JUICE
British Drug Houses, Ltd.
Evans Sons Lescher & Webb, Ltd.
Jackson, E. E.
Mumford, G. S., & Sons

LIOUORS, CONC., ETC. Fletcher, Fletcher & Co. Hewlett, C. J., & Son Robinson, B., & Co.

LITHIA SALTS
British Drug Houses, Ltd.
May & Baker, Ltd.
Merck, E.

LOZENGES OZENGES
Ayrton, Saunders & Co., Ltd.
Cox, A. H., & Co., Ltd.
Denoual, J., & Co.
Guest, Thos., & Co.
Jackson, E. E.
Potter & Clarke, Ltd.
Raimes & Co.
Warrick Bros.

Warrick Bros.

MACHINERY, PHARMACAL
Allen & Hanburys, Ltd.
Bennett, E., & Son, Ltd.
Bennett, Sons & Shears, Ltd.
Braithwaite, H., & Co., Ltd.
Forshaw, E., & Son, Ltd.
Gardner, Wm., & Sons, Ltd.
Pindar, J. W., & Co.
Stokes, F. J., Machine Co.
Smith's (John E.) Sons Co.
Thompson & Capper (Stokes)
Wilkinson, S. W., & Co.

MAGNESIA AND ITS SALTE

MAGNESIA AND ITS SALTS
Henry, T. & W.
Howards & Sons, Ltd.
May & Baker, Ltd.
Parke, Davis & Co.
Washington Chemical Co., Ltd.

MARKING INK
Hickisson. A. (Bond's)
Williams Bros. & Co.

MALT EXTRACT AND PREPS

WALT EXTRACT AND PREPS
Allen & Hanburys, Ltd.
Blackie, Robert
British DiaMalt Co.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb
Hewlett, C. J., & Son
Montgomerie & Co., Ltd.
Oppenheimer, Son & Co., Ltd.
Paine & Co., Ltd.
Southall Bros. & Barclay, Ltd.
Wander, A., Ltd.
Woolley, Jas, Sons & Ca, Ltd.
Wright, Layman & Umney

MEASURFS

Beatson & Co Bush, H. W., & Co., L. d.

MEAT EXTRACTS

Armonr & Co., Ltd. Brand & Co., Ltd.

MEDICINE CHESTS Burroughs Wellcone A Keene & Ashwell, Ltc. Leath & Ross Lloyd, T. Howard, & Co. Parke, Davis & Co.

MENTHOL CONES Maw, S., Son & Sons

MERCURIALS

Howards & Sons, I.td. May & Baker, Ltd. Merck, E. Tyrer, T., & Co., Ltd.

METEOROLOGICAL SETS Darton, F., & Co.

METHYLATED SPIRIT

Burrough, J., Ltd.
Preston's Liverpool Distillery
Macnair, A., & Co.
Randall & Son, Ltd.

MICROSCOPES Darton, F., & Co.

MINERAL WATERS AMD SALTS

SALTS
Apollinaris Co., Ltd.
British Drug Houses, Ltd.
Cheltenham Municipality
Findlater & Co., Ltd.
Hughes, E. Griffiths
Ingram & Royle, Ltd.
Vichy (State Springs)

OILS, ESSENTIAL

Allen, Stafford, & Sons, L*d. Alliance Drug & Chem. Co. Bennett Bros. Bennett Bros.
Boake, Roberts & Co.
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Dodge & Olcott Co. Evans Sons Lescher & Webb Ltd. Lautier Fils Lautier Fils
London Essence Co.
Pasquale, S. F. dc. & Fratelli
Poppelreuter, W.
Ransom, W., & Son
Scheller, Emil, & Co.
Schimmel & Co.
Stevenson & Howell, Ltd.
Wright, Layman & Uniney, Ltd.
Zimmermann, A. & M.

OILS, FATTY, ETC.

Allen, Stafford, & Sons, Ltd. Frice's Patent Candle Co. Schliemann's Oil & Ceresine Co.

OILS, MINERAL

Price's Patent Candle Co. Stern Sonneborn O.l Co. Ltd.

OINTMENTS

Blackie, R.
Blurgess, E.
Lyle & Co.
Oldfield, Pattinson & Co.
Zimmermann, Chas.. & Co.

OPTICAL GOODS

Botwright & Grey Darton, F., & Co. Maw, S., Son & Sons Nitsche & Gunther Optical Co

ORANGE WINE

Melrose-Drover Co., L^{*}d. Millar, A., & Co., Ltd.

OTTO OF ROSE Bontcheff & Kidoff Reitmeyer & Co. (synthet's) Shipkoff & Co.

PALATINOIDS Oppenheimer, Son & Co.

PAPER TUBES O'Neill, S., & Sons, Ltd.

PATENT AGENT Barker, R. W.

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Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Burroughs Wellcome & Co.
Denoual, J., & Co.
Epps, James & Co. Epps, James & Co. Evans Sons Lescher & Webb Guest, Thos., & Co. Jeyes Sanitary Comp. Co., Ltd. Wander, A., Ltd. Warrick Bros.

PERFUME MATERIALS ERFUME MATERIALS
Beisly, W. G.
Bontcheff & Kidoff
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Lautier Fils
Naef, M., & Co., Sucers.
Scheller, Emil & Co.
Schimmel & Co.
Schimmel & Co.
Zimmermana, C., & Co.

PESSARIES Burge, Warren & Ridgley Rendell, W. J.

PETROLEUM JELLY Chesebrough Mfg. Co. Schliemann's Oil & Ceresine Co.

PERFUMFS

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Barclay & Sons, Ltd.
Barclay & Sons, Ltd.
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Erasmio Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Gibbs, D. & W., Ltd.
Hewlett, C. J., & Son
Hovenden, R., & Sons, Ltd.
John Strange Winter
Lescol Perfumery Co.
McCracken, J. & R.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Oatine Co.
Quelch, H. C., & Co.
Southall Bros. & Barclay
To-Kalon Mfg. Co., Ltd.
Vinolia Co.
Warrick Bros. PERFUMES Vinolia Co. Warrick Bros. West, T., & Son Wolff, F., & Sohn

PHOTO: CHEMICALS Boehringer, C. F., & Soehne Reitmeyer & Co.

PHOTO. ENLARGERS, PRINTERS, &c. Express Developing Co. Halifax Photographic Co.

Halitax Photographic Co.

PHOTO. GOODS
Barclay & Sons, Ltd.
Burroughs Wellcome & Co.
Darton, F., & Co.
Evans Sons Lescher & Webb, Ltd.
Halifax Photographic Co.
Ilford, Ltd.
Kent, G. B., & Sons, Ltd.
Lennon, Ltd.
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Reitmeyer & Co.

PILL COUNTERS Bornkessel, F. G.

PILL MAKERS Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Bishop, Alfred, Ltd.
British Drug Houses, Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Howards & Sons, Ltd.
Lloyd, T. Howard, & Co.
McKesson & Robbins
Parke, Davis & Co.
Standard Tablet & Pill Co.
Wand Mfg. Co.

PLEATED PAPER Darter, Wilkinson & Co.

PLASTERS
Allcock Mnfg. Co.
Berliner, Arthur
Beiersdorf, P., & Co.
Dalmas, A. de St., & Co.
Geiger & Braun
Leslies, Ltd.
Maw, S., Son & Sons

POLISHES (VARIOUS) Bradley & Bourdas Judson, Daniel, & Son Oakey, J., & Son. Ltd.

POTASH Neues Kalisyndikat

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Christie, Malcolm & Co.
Dudley & Co.
Ford, Shapland & Co.
Harrison & Waide
Smith, W. H., & Son
Timme, W. O., & Co.
Townsend, J., & Sons

Townsend, J., & Sons

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Bearclay & Sons, Ltd.
Beecham, T.
Bell, John, Hills & Lucas, Ltd.
Boulton, J., & Co. (1909)
Bow's Liniment, Ltd.
Box, W. H.
British Drug Houses, Ltd.
British Drug Houses, Ltd.
British Drug Houses, Ltd.
Christy, T., & Co.
Coleman & Co., Ltd.
Congreve, G. T.
Conoid Co.
Cox, A. H., & Co., Ltd.
Dangsett & Ramsdell
Daisy, Ltd.
Danysz Virus, Ltd.
Day & Sons (Crewe), Ltd.
Denoual, J., & Co.
Eesolent Compounds, Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd.
Faulding, F. H., & Co.
Feenings, Alfred
Ferris & Co.
Freeman's Chlorodyne, Ltd.
Fulford, C. E., Ltd.
Goodall, Backhouse & Co.
Harvey & Co. (Dublin), Ltd.
Henry, T. & W.
Hovenden, R., & Sons, Ltd.
Hughes, E., Griffiths
Ichthyol Gesellschaft
Iron Ox Rem. Co., Ltd.
Verrews & Co. Ltd. PROPRIETARY ARTICLES Jackson, T.
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Kutnow, S., & Co., Ltd.
Lalor's Phosphodyne Lalor's Phosphodyne
Lofthouse & Saltmer
Marmola Co.
Martindale, W.
May, Roberts & Co., Ltd.
Menley & James, Ltd.
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Old Fort Chemical Co. Pedezy Co redezy Co.
Phillips, Chas. H., Chem. Co.
Regulin Syndicate, Ltd.
Reitmeyer & Co.
Resinol Chemical Co. Sangers Sartolin, Ltd. Sehimmel & Co. Schimmel & Co.
Scott & Bowne, Ltd.
Squire & Sons
Standard Tablet & Pill Co.
Stedman's Tecthing Powders
Thompson & Capper
Tomoda, K., & Co.
Tunbridge & Wright
Voss & Co.
Walker & Son
Wilcox, Jozeau & Co.
Zimmermann, C., & Co.
Zotos, Ltd. Zotos, Ltd. (See also Dentrifices and Toilet

PULVELLÆ Warrick Bros. Oppenheimer, Son & Co., Ltd. PUMPS
Berkefeld Filter Co., Ltd.

Berkefeld Filter Co., Ltd. **QUININE AND SALTS**Bochringer, C. F., & Sochne
Burroughs Wellcome & Co.
Howards & Sons. Ltd.

Pointet & Girard

RAZORS
Auto-Strop Safety Razor Co.
International Distributing Co. Yorkshire Steel Co.

Fullwood, R. J., & Bland Oldfield, Pattinson & Co.
RESINS AND RESINOIDS

Allen, S., & Sons, Ltd. Allen & Hanburys, Ltd. Morson, T., & Son Ransom, W., & Son Smith, T. & H., Ltd.

RESPIRATORS Zimmer & Co.

RUBBER GOODS
Burge, Warren & Ridgley, Ltd.
Davol Rubber Co. Evans Sons Lescher & Webb, Ltd. Galen Mfg. Co.
Haywood, J. H., Ltd.
Hovenden, R., & Sons, Ltd. Hutchinson Co.
Maw, S., Son & Sons
May, Roberts & Co.
Shirley Bros., Ltd.
Warne, W., & Co., Ltd.

SACCHARIN Saccharin Corporation, Ltd.

SALICIN Macfarlan, J. F., & Co. Smith, T. & H., Ltd.

SAMPLE CASES Keane, Thomas

SANITARY TOWELS Southall Bros. & Barclay, Ltd. SANTONIN

Smith, B. A., & Co. SAPONIN Field, C. W. Sthamer, Dr. R.

SAUCES Goodall, Backhouse & Co. SCALE PREPARATIONS

Lohmann, Dr. Paul Morson, T., & Son SCALES, WEIGHING Maw, S., Son & Sons Parnall & Sons, Ltd. Southall Bros. & Barclay, Ltd.

SEA SALT Tidman & Son, Ltd.

SEA-SICKNESS REMEDY Zotos, Ltd. SEEDS

Bernhardi, I. Brook, Parker & Co., Ltd. Potter & Clarke, Ltd.

SERUMS AND ANTITOXINS
Allen & Hanburys, Ltd.
American Animal Therapy Co.
Evans Sons Lescher & Webb, Ltd. Parke, Davis & Co. Schimmel & Co. Wilcox, Jozeau & Co.

SHARES McAdam & Tuckniss

SHEEP-DIPS Burt, Boulton & Haywood Sanitas Co., Ltd. Tomlinson & Hayward, Ltd.

SHOP-FITTING HOP-FITTING
Ayrton-Graham, Ltd.
Bowling & Son
Evans Sons Lescher & Webb, Ltd.
Josephs, Philip, & Sons, Ltd.
Maw, S., Son & Sons
Mills, H.
Parnall & Sons, Ltd.
Rudduck & Co.

Southall Bros. & Barclay, Ltd. SHOULDER-STRAPS

Wood, Vincent SOAP MATERIALS Armour & Co., Ltd. Chiris, Antoine

SOAP PLANT Forshaw, E., & Son, Ltd. SOAPS, MEDICATED

Armour & Co., Ltd.
Bronnley, H., & Co., Ltd.
Fulford, C. E., Ltd.
Lambert Pharmacal Co.
Resinol Chemical Co.
Wright Layman & Umney

SODIUM BICARBONATE Brunner, Mond & Co., Ltd. Electrolytic Alkali Co., Ltd. Howards & Sons, Ltd. Mumford, G. S.

SODA FOUNTAINS
Consol Automatic Acrators, Ltd. SOOTHERS & FITTINGS Shirley Bros., Ltd.

SOVA OIL Hull Oil Mnfg. Co.

Botwright & Grey Darton, F., & Co. Maw, S., Son & Sons Nitsche & Gunther Optical Co.

SPARKLETS
Aerators, Ltd.

Aerators, Ltd.

SOAPS, TOILET

Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Bell (John), Hills & Lucas, Ltd.
Bronnley, H., & Co., Ltd.
Chesebrough Mfg. Co.
Cook, E., & Co., Ltd.
Erasmio Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Gibbs, D. & W., Ltd.
Hull Oil Mfg. Co., Ltd.
International Distributing Co.
John Strange Winter
Lescol Perfumery Co.
Oakey, J., & Son, Ltd.
Oowana Soap Co., Ltd.
Pears, A. & F., Ltd.
Pears, A. & F., Ltd.
Price's Patent Candle Co.
Shaw, Henry, & Co.
Vinolia Co.
Wright, Layman & Umney

SPHYGMOMETERS

SPHYGMOMETERS

SPINAL CARRIAGES
Ellmore, W. T., & Son, Ltd.
SPIRIT OF WINE
Burrough, J., Ltd.
Preston's Liverpool Distillery

SPONGE BAGS
Maw, S., Son & Sons
Schutze, F., & Co.
Toogood, W., Ltd.

PONGES Internl. Sponge Importers Kent, G. B., & Sons, Ltd. Maw, S., Son & Sons

SPRAYS
Burge, Warren & Ridgley, Ltd.
Burt, Boulton & Haywood, Ltd.
Davol Rubber Co. Hovenden, R., & Sons, Ltd. Maw, S., Son & Sons Parke, Davis & Co.

STARCH
Mumford, G. S., & Sons
Wood, Chas E.

STATIONERY East, Walter

STILLS Bennett, E., & Son, Ltd. Bennett, Sons & Shears, Ltd.

STOPPERS
Fletcher, Fletcher & Co.
Stipendum Stopper Co.

SUPPOSITORIES Cox, Arthur H., & Co. Peats Products (Sphagnol), Ltd.

SURGICAL APPLIANCES
Allen & Hanburys, Ltd.
Bailey, W. H., & Son
Burroughs Wellcome & Co.
Bush, H. W., & Co., Ltd.
Haywood, J. H., Ltd.
Hughes, G.
Hutchinson Co.
May S. Son & Sone Hutchinson Co.
Maw, S., Son & Sons
Quelch, H. C., & Co.
Surgical Hosiery Co., Ltd.
Wood, Vincent
Warne, W., & Co., Ltd.

Warne, W., & Co., Ltd.

SURGICAL DRESSINGS
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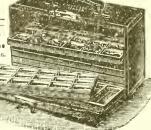
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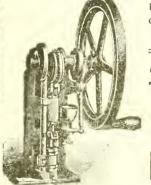
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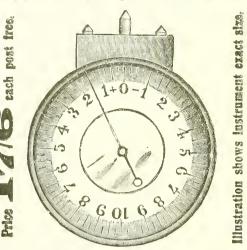
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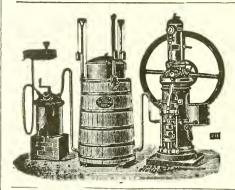
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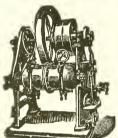
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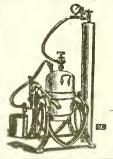
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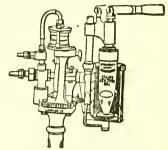
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Possessing the aroma of the natural flowers to a remarkable degree.

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For years I took a glass of Malt Liquor before dinner to create an appetite, as I was a poor feeder. Some months ago I heard of your Extract for making Beer. I gave it a trial and have ever since used it as a substitute for the other, and the result is most satisfactory. After being bottled a few days it is as bright and sparkles like bottled Ale. Since taking it I have been free from the cruel pains of Indigestion, from which I had suffered a long time. Now instead of going to the "public house" in the evening for my usual glass, I smoke my pipe at home, drink my Herb Beverage and enjoy it, go to bed and sleep soundly. I have recommended it to many others, who have tried it with like results. Your Agent here thought I ought to give you a testimonial.

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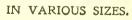
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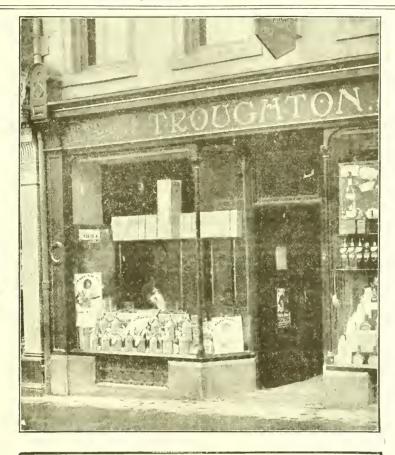
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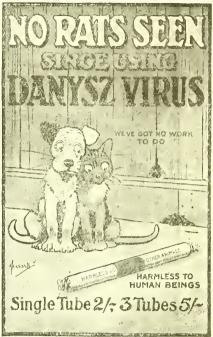
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LOFTHOUSE & SALTMER, Wholesale and Export Drug Merchants, Manufacturing Chemists,

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"Have you Wincarnis or Wincarnis and Quinine?" haven't got either in stock you are not only losing a profit that should be yours but putting a possible customer to the incon-

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One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and earrying a first-class profit.

Size.	M	ininum re	tail.	Minimum w	holesale.
1/-		1/-		7/6	per doz.,
1/6		1/6		9/-	less 5 %
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SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.
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Equivalent in the case of the size in most general demand, viz., 1/6 size, to 4/6, 12/. and 27/- respectively.

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Spo	cial Prices to V	Vholesalers a	and Shippe	ers.

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In the Civil Tribunal of the Seine, on April 1st, 1909, after protracted litigation, an injunction was obtained against a Paris House for an infringement of these Trade Marks, full costs and damages being then awarded to PAPIER POUDRÉ, LIMITED.

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You will INCREASE YOUR PROFITS by selling

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A £5 Sampling Order will secure, CARRIAGE PAID, an excellent assortment of the above, also PERFUMED CALENDARS, SHOW CARDS, PRICE TICKETS, and a DAINTY MAHOGANY SAMPLE STAND for Counter Display, FREE OF CHARGE.

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"The kind that keeps."



The most delightful of all toilet accessories. Known and renowned in every country where daintness of the toilet is recognised as a mark of refinement. Its popularity is due to its unvarying quality, its absolute purity and the fact that it

NEVER BECOMES RANCID.

Different from and superior to all other cold creams. Not affected by heat, cold or climatic changes. Retains to the last its snowy whiteness, delicate perfume and wonderful properties which have given it international fame.

OBTAINABLE FROM ALL WHOLESALE HOUSES.

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PARMA VIOLETS, JOCKEY CLUB. RUSSIAN VIOLETS, SWEET PEA, and all varieties of exceptional value.

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WHITE OILS

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Send for Samples and Prices to the actual Manufacturers,

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(THE GENUINE.)

For Shaving without Soap, Water, or Brush.



ENTERED AT STATIONERS' HALL.)

A. S. LLOYD'S EUXESIS

FOR SHAVING

WITHOUT THE Use of SOAP or Water.

DIRECTIONS FOR USE.

Unscrew the cap at the top, and gently Unscrew the cap at the top, and gently press the broadend, always taking creto do so from the bottom, by which the tube is rendered perfectly air-tight when enough is obtained apply it to the beard either with a small soft brush or the finger, rubbing it a little; then apply the razor, and although but little of the ETXESIS be seen on the face, the beard will be removed with the greatest ease and comfort. It will be found very beneficiat to wash before shaving. It is not intended to make a lather like soap. When the tube is not in use, besure to screw on the cap again. Sold in Collapsible Tubes, at 1s. 6d. and 3s. By the Original & Sole Manufacturer & Proprietor

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Sold by all Perfumers and Chemists throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses at the following prices:

10/- per dozen, 9'6 by the 3 dozen, 9/- by the 6 dozen. Retails at 1/6 the Tube; 3 - size to order.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as illustration.

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DANGEROUS HAIR PREPARATIONS.

YOU CAN GUARANTEE

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For Shaving without Soap, Water, or Brush.

CAUTION.

The Labels on genuine EUXESIS bear signature of A. S. LLOYD in BLACK INK, and that of his Widow, AIMEE LLOYD, in RED INK. Refuse any other.

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The world-famous

YSC The Razor de luxe

This Razor has been on the market barely 5 months, but it is already in use all over the world. This success was scarcely anticipated even by ourselves: mere excellence of work and material would not account for it, and we attribute it almost entirely to the fact that the Y.S.C. has got over the two great drawbacks to Safety Razors—the necessity for taking apart and cleaning, and the absence of any scientific adjustment to suit different beards. It is the ONLY Safety Razor that CAN'T cut the skin, and the smallest and most elegant in the world.

NOW FOR THE FIRST TIME WE ARE PUTTING THIS IN THE HANDS OF THE RETAIL TRADE.

Prices: SAFETY-Type. A., in brown leather case and 10 blades, 21 -Wholesale, 149

Type B. Fluted handle and Russia leather case, 316 Wholesale, 22 6 Spare Blades, packet, 2/6 Wholesale, 1 10



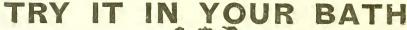
THE NON-SAFETY-

Types D. and E. An ordinary razor with the advantages of a safety. Cheap flexible blades thrown away when done with.

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A Working Model Showcard sent free on application; Also Catalogue.

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Invaluable for Toilet Purposes.

Removes Stains and Grease Spots from Clothing. Allays the Irritation caused by Mosquito Bites. Invigorating in Hot Climates. Restores the Colour to Carpets. Cleans Plate and Jewellery. Softens Hard Water.

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The ORIGINAL remedy that kills the dandruff germ.

This wonderful Hair-Saver acts by destroying the germ or microbe that causes dandruff, itching scalp and falling hair, after which the hair resumes its abundant growth and beauty as nature intended. Extraordinary results follow the intelligent use of Herpicide. Sold in all civilised countries.

Newbro's Herpicide is the most exquisite hair dressing in the world. Cooling and comforting. It stops itching of the scalp almost instantly.

Manufactured by THE HERPICIDE COMPANY, Detroit, Michigan, U.S.A.

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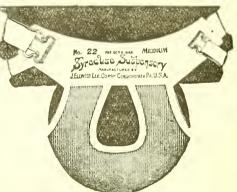
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617 is the best value in the market

HENRY C. QUELCH & CO., 4 Ludgate Sq., London, E.C.

SYRACUSE BANDAGES



Made in Three Sizes-Small, Medium, and Large, The Best to Stock. In demand everywhere.

...per doz. 0 10. Cotton sack, non-elastic band 7 3 13 3 0 0 0 0 6 6 6 6 6 6 13 3 0 0 2 13 0

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Ext. Belladonnæ Viride Nov. Ext. Hyoscyam. Viride Nov., &c.

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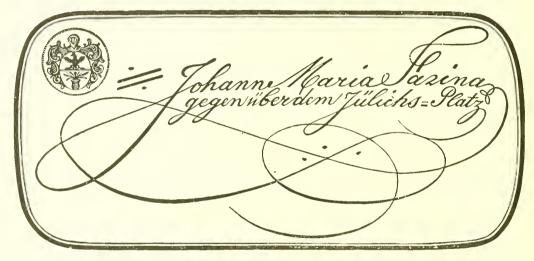
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COLOGNE.

Established at Cologne A.D. 1709.



The above is an exact facsimile of my registered Label. Owing to the many close imitations of this, intending purchasers of Eau de Cologne should closely examine the label of every bottle, compare it with the one shown here, and note carefully the address: Gegenüber dem Jülichs-Platz, in addition to the name Johann Maria Farina.

I would point out that I am the manufacturer of the "Genuine" Eau de Cologne, and the only Firm that has continuously and uninterruptedly produced Eau de Cologne from the receipt of the inventor since 1709. During this time—over 200 years—the business has been carried on at the same address, viz.: Gegenüber dem Jülichs-Platz, by a direct descendant of the founder of my firm without a break.

These facts are sufficient to enable the public to properly value the incorrect statements put forward by various competitors and manufacturers of spurious imitations of my production.

(Signed) JOHANN MARIA FARINA,
Gegenüber dem Jülichs-Platz,

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ESTABLISHED 1795

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For Stocks in London, Wholesale only: W. NAUMANN, 63 Bartholomew Close, E.C.

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ESSENTIAL OIL of LAVENDER

EXPRESSED JUICES

ESTABLISHED A.D. 1768.

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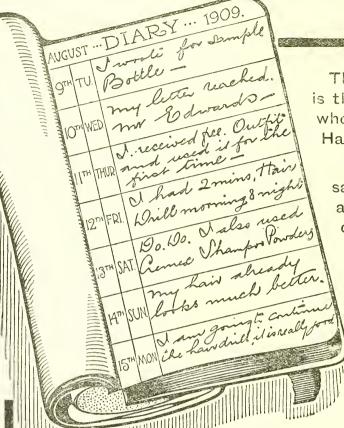
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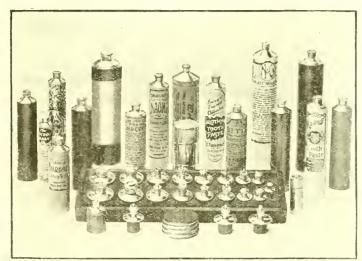
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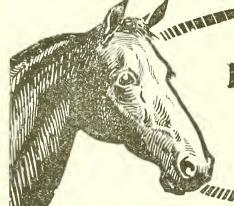


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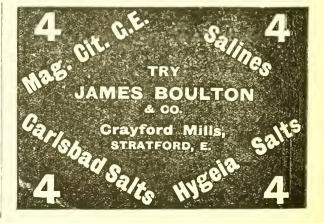
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SPECIFY WHEN ORDERING

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Adeps Lanæ Hydros, B.J.D. ... 10d. Adeps Lanæ Anhydros, B.J.D. ... 1/1

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Cold Cream, in 2 oz. pots, at 15/0 per doz.

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CONTENTS: Vol. LXXVI., No. 26 (Series No. 1587).

[The folios in this List and in the Summary are those at the top of the pages, but references in the Text are to the serial folios at the bottom of the pages.]

PAGE	PAGE
Association Affairs 61	Information Department 54
Bankruptcy Report 53	Irish News 42
British Pharmaceutical	Legal Reports
Conference 87	45 and Col. Supp.
Business Changes 54	Marriages 61
Cape Pharmacy Board 44	New Companies 53
Chemical Society 60	Observations and Reflec-
Cinnamon-bark Oil 59	tions 55
College Notes Col. Supp.	Personalities 62
Coming Events Col. Supp.	Pharmaceutical Society:
Company News 53	N.B. Braneh 60
Corner for Students 40	Pharmaceutical Society
Correspondence 87	of Cape Colony 44
Deaths	Poison Lieences 44
Deed of Arrangement 54	Poisonings
Editorial Articles:	Seots News 43
Spirit-licences 56	South African News 43
Pepper Adulteration 58	Summer Outings 62
Dentists Act 58	Trade-marks Applied
English News 41	For Col. Supp.
Fairchild Examination	Trade Notes 83
Col. Supp.	Trade Report 84
French News 43	Westminster Wisdom 58
Gazette 53	Wills, Recent 62

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SUMMER ISSUE Of July 30, 1910.

That Issue will be quite as interesting (if not more so) as any of its predecessors, and already the Publisher is allotting space for insets. It would be a great assistance to him in the production of the Summer Issue if advertisers would communicate their requirements to him at once. The address is The Publisher, The CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

Summary of this Issue.

The more notable items only are dealt with,

Articles and Communications.

An important statement with respect to "Our Retrospect" of last week is printed on p. 58

The British Deutal Association has drafted a Bill to amend the Deutists Act so as to prohibit practice of deutistry by any except registered persons (p. 58)

An interesting problem is submitted by a correspondent in regard to pushing a proprietary article. He asks chemists who handle it to express their opinions on the subject (p. 87).

Our exercises in qualitative chemical analysis will be replaced during the summer months by a series of useful notes for students of pharmacy. The results of the June exercise are given on p. 40.

We deal editorially with the new "off" spirit-licences which are usually required in the drug-trade, showing the new conditions which the Finance (1909-10) Act institutes, and the payments now to be made (p. 56).

Mr. Chas. Alex. Hill, B.Sc., in a communication on cinnamon-bark oil, shows the importance of the refractive index in comparison with other analytical factors. He proves that the oils imported from Ceylon give similar factors to undoubtedly genuine oils distilled in this country, therefore are pure (p. 59).

At the last meeting of the Chemical Society for the session three pharmacists were elected Fellows (p. 60).

Representatives of the Society of Chemical Industry presented an address to the King on Wednesday (p. 41).

The questions given in the Fairchild scholarship examination this week are printed in the Coloured Supplement.

The late Mr. Michael Carteighe left estate valued at 61,7531. The Pharmaceutical Society benefits under his will (p. 62)

A new trial of the case Riley v. National Cash Register Co., Ltd., has been ordered by the Court of Appeal (p. 45).

Mr. Archibald Currie (Leith) and Mr. James Moir (Glasgow) are the new members of the North British Branch Executive (p. 61)

The Cape Pharmacy Board met last month and transacted administration business, afterwards holding an examination of candidates (p. 44).

The prizes were presented to the School of Pharmacy students on Thursday. The proceedings are reported in our Coloured Supplement.

A general invitation is given by the Secretaries of the British Pharmaceutical Conference for chemists to attend the meeting at Cambridge (p. 87).

This number completes our seventy-sixth volume, and pp. 63 to 82 of the issue are devoted to a comprehensive index for use by those who bind the volume.

Thomas Trask, Ph.C., who was at one time well known in the West-end, is dead. So also is Mr. J. T. Mayfield, Ph.C., formerly an assistant to Sir J. W. Swan (p. 61).

The proprietors of Yorkshire Relish have instituted proeeedings under the Merchandise-marks Act against a saucemaker who used that term. He was convicted (p. 52).

Summer outings of chemists are in season, and we report several held during the past ten days (p. 62). We also learn that the Ipswich Chemists' Association have had their first

Judge Harington has decided that an employé of a person licensed to sell agricultural and horticultural poisons infringes heensed to sell agricultural and horticultural poisons infringes Section 15 of the 1868 Act by selling such poisons (p. 46). The Pharmaceutical Society has proceeded against an employé of a limited company for the same offence. Here it was submitted for the defence that a licence to a company covers sales by its employés. Judge Lunley Smith, who heard the case, took time to consider his decision. This case may be as important historically as the one decided by the House of Lords in 1880, and we therefore report it fully (pp. 47-52).

Trade and Market Matters.

Market alterations are mostly in favour of buyers, these Market atterations are mostly in layour of buyers, these including easier to lower prices for morphine salts, copper sulphate, benzols, eod-liver oil, podophyllun, senega, hydrastis, Jamaica ginger, quillaia, and shellac. Guineagrains are dearer. Cartagena ipecacuanha is firmer. Glycerin is very firm and santonin is dearer (p. 84).

Corner for Students.

Conducted by Leonard Dobbin, Ph.D

All communications for this section should be addressed thus "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Report on June Analytical Exercise.

THE powder distributed to students on May 25 consisted 1 of equal parts by weight of potassium di-hydrogen phosphate, sodium pyroborate (borax), and ammonium oxalate. The calculated composition of such a mixture is:

					 9.6
Na					
NH.					8.5
PO.					23.3
B ₁ O ₇		• • •			13.6
C'O'		• • •		• • •	20.6
H H.O					0.5 19.9
0.11	• • •	• • •	• • •	• • •	 19.9
					0.00

Samples of the powder were distributed to twenty-eight students, and fifteen reports were sent in for examination.

All of our correspondents were successful in detecting sodium, ammonium, and the phosphoric-acid radical. Two failed to detect potassium, while the failures in detecting the boric and the oxalic acid radicals were five and three respectively. Five students failed to observe the evolution of water when the powder was gently heated in a

small dry test-tube.

This was a simpler exercise than any that we have submitted to students for some time, since the powder was wholly soluble in water, contained metallic radicals belonging to the alkali-metal group only, and contained acid radicals for each of which an easily applied distinguishing test was available. The presence of a phosphate was indicated as probable to most of our correspondents, at an early stage of the analysis, by the reaction with ammonium molybdate, and was confirmed when the absence of an arsenate had been established; and the facts that the powder dissolved completely in water, that it contained a phosphate, and that the aqueous solution had an alkaline reaction, showed conclusively that only alkali-metals could be present. Some students did not realise how a knowledge of these facts could simplify the systematic analysis, but proceeded to add the various group reagents, throughout, in the usual way. A few failed to attain complete solution of the powder in water, probably in consequence of having used tap-water containing traces of calcium salts, instead of distilled water, whereby a precipitate of calcium oxalate was produced. One or two who found the powder to dissolve entirely in water reported the presence of iron, aluminium, or magnesium, all of which were excluded by reason that their phosphates are insoluble in alkaline solutions.

Several students reported the presence of a chloride, some evidently regarding this as a main constituent of the powder, and others finding only a trace. When the aqueous solution of the powder was mixed with dilute nitric acid in moderate quantity and silver nitrate was then added, a barely recognisable opalescence was produced, indicating that a faint trace of a chloride was present. Those who obtained an abundant precipitate at this point and supposed it to consist of silver chloride had not added nitric acid in sufficient quantity to dissolve completely the precipitated silver oxalate, which only dissolves in aitric-acid solutions of moderate concentration and not in solutions which are little more than acidified with the reagent. The likelihood of silver oxalate being mistaken for silver chloride has been the subject of many previous

notes in this column.

The failures in the detection of the borate were more The failures in the detection of the borate were more numerous than was anticipated, seeing that the turmeric-paper test and other tests for borates are easily applied and are highly characteristic; but we note that the majority of these failures were due simply to the omission to apply any test that could have shown that a borate was present. The omission to report the evolution of water when the powder was heated in a dry test tube calls for remark. A

substance evolved in this way to the extent of about onefifth of the total weight of the powder should not have escaped observation, or, if observed, should not have been left unreported, even although it was only water.

The first prize for the best analysis has been awarded to LAURENCE E. R. SURTEES, 14 Newgate Street, Morpeth. The second prize has been awarded to

THOS. C. CAMPBELL, 5 Howarth Street South, Millfield, Sunderland.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about

five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

1. Correspondents who are unqualified:

L. E. R. Surtees (first	Astolat	 89
prize) 10	0 D. G. Baird	 78
Validol (non-competing) 9		
T. C. Campbell (second		
prize) 9	5 Polonium	 70
Rob Roy 9		
Nil Desperandum 9		 62
Phoca 9	2	
	21.0 2	

2. Correspondents who are qualified: Cobalt 91 Nitrax 61

To Correspondents.

L. E. R. SURTEES.—We are seldom disposed to give full marks, but your paper has neither omissions nor superfluities regarding which any reasonable objection might be made.
T. C. CAMPBELL.—Note that while ammonia is produced on

heating various ammonium salts, ammonium nitrate yields its

ntrogen as nitrous oxide when it is carefully heated.

ROB ROY AND POLONIUM.—The white precipitate which you supposed to be silver chloride really consisted of silver oxalate, which only dissolves with some difficulty in dilute nitric acid.

See the general remarks.

NIL DESPERANDUM.—You would have obtained a higher position if you had not overlooked the evolution of the very considerable proportion of water when the powder was heated in a small dry tube.

Phoca.—The effervescence you observed on heating the

powder with concentrated sulphuric acid was due to the evolu-tion of carbon monoxide and carbon dioxide from the decomposition of the oxalate, and a precipitate should have been produced on passing the mixed gases into lime-water. Use sodium-hydrogen tartrate rather than tartraic acid as a test for potasium. Read also the reply immediately preceding.

ASTOLAT.—Since the powder dissolved completely in water,

yielding a solution which contained the phosphoric-acid radical and was slightly alkaline to test-paper, the possible

presence of aluminium or iron was precluded.
D. G. Baird and H. Donaldson.—The precipitate produced by calcium chloride in testing for acid radicals was partly soluble and partly insoluble in acetic acid. No useful cnd was attained by dissolving the powder in water and then evaporations the powder in water and then evaporations to the control of the control o attained by dissolving the powder in water and then evaporating to dryness prior to igniting to get rid of ammonium salts. Apparently you did not apply any test for a borate. See also the first sentence of the reply to "Phoca."

H. BLATT.—It is not necessary, and it would not usually be practicable, to remove the acid radicals which cause a precipi-

tate with calcium chloride before testing for other acid radicals. In the absence of a sulphate, the fact that the calcium-chloride precipitate was only partly soluble in acetie acid was strong evidence of the presence of an oxalate. In the case of a substance easily soluble in water and in the absence case of a substance easily soluble in water and in the absence of heavy metals it was unnecessary to boil the powder with sodium carbonate in preparing a solution to be tested for acid radicals. The indication of sulphur which you obtained was probably due to sulphur compounds present in small quantity in the charcoal you employed.

DEBUT.—Regarding your testing for a borate, you merely write "Test in flame: no green coloration: borate absent," but you give no indication of having taken steps to liberate boric acid or to form any other boron compound which could

sodium acid tartrate should have been used, however, instead of the normal salt. The reaction which you took to indicate the presence of iron was no doubt due to the action of hydrochloric acid on a solution of potassium ferrocyanide which was not freshly prepared.

NITRAX.—We commend to your attention the general remarks above, and the various answers to other correspondents.

Summer Studies.

The exercises in qualitative analysis are discontinued until October. We propose to publish during the summer months. as space affords, a series of pharmacopæial notes for students of pharmacy.

English and Welsh News.

When sending Newspapers containing Trade news to the Editor please mark the item ..

Brevities.

Messrs. Fowke & Son, chemists, 18 Market Square, Stafford, were awarded the third prize for a display of "things to use" in the local window-dressing competition

One of the papers to be read at the forthcoming British Pharmaceutical Conference will be upon "The Bacteriological Standardisation of Disinfectants," by Professor G. Sims Woodhead and Dr. Constant Ponder.

Burglars broke into the pharmacy of Mr. T. D. Sneath, chemist and druggist, at 258 Freeman Street, Great Grimsby, last week, and emptied the till of its contents. The premises of Messrs. Crofts, chemists, Victoria Street, were also entered, but the depredators were evidently disturbed, as they departed without booty.

In the procession of women suffragists from the Embankment to Hyde Park on June 18, about thirty lady pharmacists marched under the banner of the Women Pharmacists' Association, among them Mrs. Clarke Keer, Mrs. Wood Smith, Misses A. Gilliat, E. S. Hooper, B.Sc., Wardle, A. Neve, Goodwin, Highton, and McKerron.

At the inquest held at Lambeth relative to the death of the wife of a lighterman named Chapman, it was stated that the husband had obtained several diarrhea-draughts from a chemist in Lambeth Walk. At the inquest the Coroner remarked that chemists were not supposed to treat cases, to which the chemist replied that the man had asked for a draught similar to one supplied before, and witness had told him to send for a doctor. Dr. Freyberger stated that death was due to heart-failure consequent upon peritonitis, and a verdict of "Death from natural causes was returned.

Society of Chemical Industry.

On Wednesday a deputation from the Society of Chemical Industry was received by the King at St. James's Palace, on presenting an address from the Council. The deputation was introduced by the Right Hon. Sir Henry E. Roscoe, F.R.S., first President of the Society, in the words:

"I have the honour to introduce to your Majesty a deputation from the Society of Chemical Industry, and to present to your Majesty a loyal address. The Society has for its object the union of science and practice. It numbers more than 4,000 members, and has sections not only in the chief cities of this Kingdom, but in your Majesty's possessions beyond the seas and in the United States of America, and exerts a powerful influence on the progress of industrial chemistry throughout the world."

His Majesty handed a suitable reply to the address. The deputation consisted of Professor Meldola, F.R.S., Acting President, in the absence of the President (Dr. Ira Remsen, of Johns Hopkins University, Baltimore, U.S.A.); Mr. E. Grant Hooper, F.I.C. (both of whom kissed hands, as proposer and seconder); Mr. W. F. Reid. President-Elect: Mr. Thos. Tyrer, Hon. Treasurer; and Mr. Chas. G. Cresswell, General Secretary.

Agricultural Science,

The President of the Board of Agriculture and Fisheries has appointed a committee to advise the Board on all scientific questions bearing directly on the improvement of agriculture, and especially as to the methods to be adopted (a) for promoting agricultural research in Universities and other scientific schools; (b) for aiding scientific workers engaged in the study of agricultural problems; and (c) for ensuring that new scientific discoveries are utilised for the benefit of agriculturists. The committee will consist of the following

The Duke of Devonshire, Sir Edward Thorpe, C.B., Mr. David Davies, M.P., Dr. J. J. Dobbie (Principal of the Government Laboratories), Professor J. B. Farmer, Dr. S. F. Government Laboratories), Professor J. B. Farmer, Dr. S. F. Harmer (Keeper of Zoology at the Natural History Museum), Dr. R. Stewart MacDougall (Technical Adviser in Zoology to the Board of Agriculture and Fisheries), Mr. T. H. Middleton (Assistant Secretary to the Board of Agriculture and Fisheries), Mr. P. Spencer Pickering, Lieutenant-Colonei David Prain (Director of the Royal Botanic Gardens, Kew), Mr. H. S. Staveley-Hill, M.P., Mr. Stewart, Stockman, M.R.C.V.S., Dr. J. J. H. Teall (Director of the Geological Survey and Museum), and Dr. David Wilson, M.A.

Mr. Middleton will act as chairman of the committee and one of the officers of the Intelligence Division of the Board will act as secretary.

Contracts.

Sculcoates Guardians. Sayers, Silcox, Cuzner & Co., Hull, for surgical-dressings.

Romsey Guardians. Mr. Frank Oram, Ph.C., Romsey, for drugs and surgical-dressings.

St. Ives (Hunts) Guardians.—Messrs. H. Barton, Turner & Guson, for chemists' sundries.

Metropolitan Water Board .- T. Tyrer & Co., Ltd., for 7 tons of sulphate of alumina, at 26l. 3s. 11d.

Metropolitan Asylums Board .- S. Maw, Son & Sons, for the supply of bath-sponges to the Central Stores.

India Office.—Duncan, Flockhart & Co., Edinburgh, for the supply of chloroform to the Store Department.

Iele of Wight Guardians .- Mr. A. Millidge, chemist, Newport, and the Timothy White Co., Ltd., for druggists goods.

Guisborough (Yorks) Urban Council. - Mr. A. J. Leeming, Guisborough, appointed chemist to the Council for

Paddington Guardians.—Hodgkineon, Prestons & King, for drug supplies, Indoor at 319l. 11s. 51d., and Outdoor at 70%. 10s. 21d.

St. John's Hospital, Twickenham.-Mr. C. Bunker, chemist, Twickenham, for the six months' supply of drugs and medicines.

Camberwell Guardians.—Burgoyne, Burbidges & Co., for the supply of drugs, etc., for their various institutions. The net amount of the tender was 1,245l. 10s. 7d., with a discount of $33\frac{1}{3}$ per cent., thus reducing it to 830l. 7s. 1d.The following are some of the prices: Boric acid, 5d. per lb.; glycerin, 1s. 7d.: infusions, cascarilla, 1s. 6d.; gentian, 1s. 4d.; quassia, 1s. 4d.; senega, 3s.; lin. camphor., 1s. 4d.; lin. camphor. co. meth., 1s. 3d.; oxymel squills. 6d.; potassium bromide, 1s. 8d.; paraff. molle, 4d.; chemical food, 5d.; sodium bicarbonate, 3d.; soda salicylate, 2s. 2d.; syr. codeinæ, 1s. 6d.; tr. camphor. co., 3s. 6d.; boric ointment, 9d.; zinc ointment, 1s. 2d.; cod-liver oil and malt. 9d.; senna mixture, 8d.; sp. ammon. arom., 4s. 3d.; ext. casc. sag., 2s. 8d.; vin. colch., 2s. 4d.; potassium iodide, 11s. 9d.; sapo mollis, B.P., 9d.; spirit, ather. nit., 5s.; ac. carbol. nit., 1s. 1d.; æther. pur. (Salumon's), 9s. 3d.; ext. glycyrrh. liq., 2s. 6d.; mag. carb., 8d.; starch powder, 20s. 6d. per cwt.; Epsom salts, 10s. per cwt.; crushed linseed, 28s. 6d.; cod-liver oil, 4s. 6d. per gal.; olive oil, 7s. 6d.; meth. spirit, 4s.; turpentine, 8s. 3d

Sheffeld Notes.

Mr. Antcliffe, pharmacist to the Sheffield Union, has been rather seriously unwell, but is getting better.

Mr. Newsholme has been unwell again for the last three weeks, but he also is reported to be somewhat better.

Councillor A. Russell Fox, F.R.S., has been in a very dangerous condition for some little time, and his life was despaired of. We now learn that he has had a turn for the better, and hopes are entertained of his recovery.

At the Sheffield Quarter Sessions on June 21, Albert Edward Turner was sentenced to four months' imprisonment, with hard labour, for attempting by false pretences to obtain from Boyril, Ltd., a case and a dozen bottles of Boyril, and a dozen packs of playing-cards. He sent an order for the goods on a memoranda form bearing the name of the "Crescent Chemical Co., South View Crescent, Abbeydale.'

Cricket.

Mr. II. Chell played for the Leicester County Colts recently, where he acquitted himself creditably with both bat and ball. We understand the County authorities think fairly well of this young cricketer.

fairly well of this young cricketer.

"Allenburys" C.C.—The first eleven met the St. Katheraino's C.C. in the London Business Houses Cup Competition at The Elms, Walthamstow, on June 18. The final scores were: Allenburys, 131; St. Katheraine's, 54.—The second eleven played Hale End Substitute at Highams Park, and were defeated by 105 runs to 22.

Leicester Pharmacy Athletic Club.—The Leicester Club took a somewhat weakened team to Wigston on June 9 to do battle against the underwear men of the "Two Steeples" C.C., and paid the penalty. The chemists were all dismissed for 20 runs, against 121 for seven wickets compiled by their opponents.—On June 16 the L.P.A.C. met the boot on the other leg altogether, this time the third eleven of the Leicester Banks C.C., on the County ground. The Banks team showed up poorly against the bowling of Miles and Chell, who took each five wickets at a cost of just over 3 runs each, the total being 34. The chemists ran up, in reply, the huge score of 322 for eight wickets (Miles 76, Chamberlain 74, West 74, and Tomlin 53).

Sheffield v. Leeds.—The pharmaceutical cricketers of Leeds paid their annual visit to their Sheffield confreres on June 15. The "Blades" batted first, and, thanks to a fine innings of 63 not out by Tilsley, ran up the respectable score of 100 for eight wickets before declaring. To this total Leeds replied by scoring 62. Sheffield thus winning by 38. White (17) and Hutchinson (11) were the best scorers for Leeds. After the match the visitors were entertained to dinner, which was followed by a concert. Mr. Percy Carr, who presided, expressed the pleasure which the visit had afforded the Sheffield members, and these feelings were suitably reciprocated in speeches by Messrs. Bentley and Sergeant. Mr. White showed his versatility by making a very humorous speech, and the singing of Mr. Crawford also added to the enjoyment of the evening. A photograph of the players was taken.

Police-court Charges.

At the Leicester Juvenile Court on June 20, George Richardson (12), schoolboy, was sent to a Church Army Home for a month for stealing a tube of seccotine, value 6d., from Mr. William Thirlby, chemist and druggist, 4 Southgate Street, Leicester. Mr. Thirlby told the Bench that he had missed a "Iot of things," and had been compelled to have his pharmacy watched.

At Ashton-under-Lyne last week, Maurice Sidebottom was sent to prison for a month's hard labour for breaking into the pharmacy of Mr. J. J. Phillips, chemist and druggist, 18 Stockport Road, Ashton-under-Lyne, and stealing a bottle of wine. A constable discovered prisoner endeavouring to open the safe. Accused had attempted to burgle Thompson's Drug-stores a short time ago.

The Worthing Magistrates decided on June 15 that Catherine Henrietta Arnold (24) should enter a home for a year, and bound over Sybil Francis Theed (15) for stealing thirty packets of Sen-sen, soap and honey, valued at 8s. 5d., the property of Mr. Percy Frederick White, chemist and druggist, The Park Pharmacy, Park Road, Worthing. The goods were taken while Mr. White went behind his dispensing-screen to fill an order by the elder prisoner.

At Feltham Police Court on June 20, Albert II. Lewis (21), carman, 15 Grove Road, Twickenham, was sentenced to twelve months' imprisonment in the Second Division for stealing a quantity of luggage belonging to Mr. John James Taylor, chemist and druggist, of 7 Cambrian Road, Richmond Hill, and from other residents in that locality. There were nineteen cases representing luggage valued at 60%, which prisoner had obtained by representing that he was a carman in the employ of Messrs. Carter, Paterson & Co.

Daugs for Damascus.—The value of drugs (including proprietary medicines of all kinds) imported into Damascus during 1909 amounted to about 10,000%, of which France supplied 30 per cent., Austria-Hungary 20 per cent., United Kingdom, Germany, and Italy 30 per cent., and India 20 per cent.

Irish News.

When sending Newspapers containing Trade news to the Editor please mark the items.

Brevities.

A pharmacy has recently been opened at Bangor, co. Down, by Mr. W. P. Doohan, M.P.S.I. (late of Tate's Medical Hall). Mr. Doohan was for several years manager of Messrs. J. S. Balmer, Ltd.

Mr. Frank Tellwright has been appointed managing director of Hugh Moore & Alexanders, Ltd., wholesale druggists, Dublin, to fill the vacancy caused by the death of Mr. W. J. McNeight, J.P. Mr. Tellwright has been connected with the firm for the last twenty-eight years, and has acted frequently as deputy-manager.

Dr. G. W. Connor, Newry, President of the Irish branch of the British Dental Association, was in the chair at the recent meeting of the Association at Warrenpoint. At the dinner which followed the meeting some very complimentary references were made to the President. The family to which he belongs has been for several generations associated with pharmacy, medicine, and surgery.

Messrs. Summer & Co., Liverpool, have written to the Dromore West Board of Guardians acknowledging the clerk's intimation that they have been appointed contractors for drugs to the Union, but adding that as they tendered so long ago as last March they cannot at this stage accept the contract. The Local Government Board have, under the circumstances, intimated that the contract should be given to Messrs. Clarke & Co., who sent in the next lowest tender, and it has been accepted by that firm.

Analysts' Appointments.

The Newtownards Urban Council on June 11 appointed Mr. Robert J. Blake to be their analyst, in succession to the late Mr. Robert Barklie.

Mr. Walter Thorpe, Dublin, has been elected analyst to the Magherafelt Board of Guardians at 18l. per annum. At the meeting at which the appointment was made a long letter was read from the Institute of Chemistry of Great Britain and Ireland protesting against the practice of offering professional positions by tender, since the proper service of the public is not likely to be secured by the appointment of a practitioner who places the least value on his skill, experience, and professional status. Mr. Thorpe has also been appointed analyst to the Abbeyleix Union at 10l. per annum.

Irish Chemists' Assistants' Association.

The most recent addition to the clubrooms of the Irish Chemists' Assistants' Association in Dublin is a billiard-table which forms a great attraction to the members.

A committee meeting of the Irish Chemists' Assistants' Association (Belfast branch) was held on June 10 in the rooms, Victoria Square, Mr. Charles E. Doig presiding. It was resolved that the rooms be open three nights weekly during the summer months—viz., Monday, Wednesday, and Friday—from 8.15 to 10.30 p.m. The Hon. Secretary, Mr. H. F. Moore, reported that he had received contributions towards the branch from the following firms: Evans Sons Lescher & Webb, Ltd.; Southall Bros. & Barclay, Ltd.; Thomas McMullan & Co.; T. Howard Lloyd & Co.; Wright, Layman & Umney, Ltd.; and John Andrews & Co.

To Remind.

At the last meeting of the Cavan County Council a letter was read from the Privy Council reminding the Council that any vendors (not being pharmaceutical chemists) selling poisonous materials, such as sheep-dip and weed killer, must have a licence from the local authority under the Poisons and Pharmacy Act, 1908. The Chairman, Mr. T. P. McKenna, said this was an important matter to persons selling poisonous materials who were not chemists. The Council solicitor said that any person selling poisons this year must have a licence from the local authority. The Chairman: This should be well published in order that these people may know that it is necessary for them to have a licence to sell poisons.

Scots News.

When sending Newspapers containing Trade news to the Editor please mark the items.

Aberdeen.

The Aberdeen Parish Council contemplate relieving the Resident Medical Officer at Oldmill Poorhouse of the work of dispensing, and appointing a part-time dispenser at 401. per annum.

Mr. Marshall K. Watt, pharmacist and optician, Esslemont Avenue, Aberdeen, and late manager of The Dispensary, Singapore, is a member of the team representing Singapore at the forthcoming Bisley Meeting.

The excursion of the Aberdeen Pharmaceutical Association takes place on Wednesday, June 29, to Stonehaven. 'Business quiet' is the general comment in town, so chemists may well have a day in the country.

Glasgow and the West.

In a fire on June 17 in the Camlachie district, the stables of the Scottish Antiseptic Co., 190 Great Eastern Road, were affected, and two of the company's horses were burned to death.

Dr. W. G. Neill has closed his dispensary and consultingrooms at North Woodside Road, but is using his former dwelling-house at 18 West Princes Street as consultingrooms and dispensary, and now resides in Belhaven Terrace.

The Medical Hall at 146 Woodlands Road, Glasgow, which was carried on by the late Mr. C. E. Laing, chemist, has been bought by Dr. Nairn, 51 Elderslie Street. Miss Laing is taking charge of the shop under the supervision of Dr. Nairn.

Mr. Alexander Wood, Ph.C., manager of the King Street department of the business of Messrs. Rankin & Borland, chemists, Kilmarnock, was entertained to supper by the employés of the firm last week and presented with a handsome marble timepiece on the occasion of his marriage. Freemasons' Lodge (St. John, No. 22) also gave Mr. Wood a present.

Edinburgh.

Mr. F. J. Paddon, who is representing Messrs. S. Maw, Son & Sons in Scotland, has removed from London to 91 Morningside Drive, Edinburgh.

The Edinburgh Chemists', Assistants', and Apprentices' Association had another botanical excursion on Wednesday, June 15, when a company of about thirty, under the leadership of the President (Mr. E. J. Brown, Ph.C.), travelled from the Caledonian station to Cramond at 8.37 P.M., and walked back. Some excellent field-work was done.

The Bogey competition for the "Brown" Medal of the Edinburgh Chemists' Golf Club was played over the Braids Golf Course in fine weather, with the following result:

First: Wm. Gibb (seratch), one hole up.

Second: G. W. Mangan (scratch), one hole down.
Third: A. J. Clark (five holes), two holes down.
Fourth (a tie): E. Steven (five holes), three holes down, and Geo. Baxter (two holes), three holes down.

Mr. J. D. Horsburgh on playing to the eighth hole had the uncommon experience of killing a blackbird with his drive off the tee.

French News.

(From the "C. & D." Correspondent.)

Dr. Doyen's Mycolysine.—Dr. Doyen has delivered a lecture in Paris on the results of experiments in the treatment of consumption with myeolysine, for which he claims high curative power.

THE PASTEUR INSTITUTE.—The report of the Pasteur Institute, Paris, for 1909 shows that 467 patients were treated there for rabies last year. These compare with 1,520 patients received in 1899.

Morphinomania.—The attempt to stamp out morphinomania is continued vigorously, if somewhat spasmodically, in Paris. A Montmartre pharmaeist was summoned recently before the Tenth Chamber of the Parisian Police | fontein on Sunday afternoon, May 29. The teams were the

Courts for delivering morphine without a regular prescription, and ordered to pay a fine of 40l. It is stated that pharmacists are to be sharply "looked after" with an object of suppressing the practice. The chief consumers are a certain class of social butterflies. A pharmacist at Brest was also arrested recently in connection with a scandal concerning morphia there.

Tax of Automatic Machines.—A tax of 10f. (8s.) per annum was imposed on all automatic machines distributing tickets, perfume, sweets, or other goods of any kind, by a law recently passed. The preparation of the plates indicating the payment of the tax had, however, hitherto retarded its actual application. The Excise has now a sufficient supply; the plates were delivered in Paris on May 25, and in the provinces at the end of the month. Ten days' grace will be given for the purchase and fixture of these proofs of payment.

EARLY CLOSING.—The Paris pharmacists' assistants have been very active during the past week regarding the question of early closing, and evening agitation meetings have been held in various parts of Paris. A further special meeting is called for Thursday evening, June 23, at the Paris Workmen's Exchange, in order to take a definite decision with a view to bringing about the closing of pharmacies at 9 p.m. from July I next. The leaders of the movement think that the commencement of the holiday season is a convenient and propitious moment for bringing pressure to bear.

PARIS SOCIETY OF PHARMACY.—At this month's meeting of this Society, M. Paul Thibault (President) in the chair, M. Marty, the distinguished army pharmacist, made an official presentation to the members of a copy of the special centenary number of the "Journal de Pharmacie t de Chimie.' He drew attention to the close and friendly relations which have always existed between the 'Journal' and the Society, of which it has always been the official organ, as they both have the same origin and emanate from the same founders. M. Marty expressed appreciative thanks to Professor Bourquelot, which, he said, were due from all pharmacists, for the skill and untiring care with which he had so successfully edited this interesting centenary number. Several questions of scientific interest were dealt with at the meeting. M. Yvon referred to some observations made at the last meeting concerning the granulated kola of the Codex. He drew attention to the fact that the Codex is drawn up for retail pharmacists and not for manufacturing chemists, and expressed the opinion that, in a general way, the Society of Pharmacy need not take into account the difficulties met with by the latter in the wholesale preparation of medica-

South African News.

"The Chemist and Druggist" is regularly supplied by order to all the members of the seven Societies and Associations of Chemists in business in British South Africa.

Orange Free State.

INTER-COLONIAL TRADE.—From June 1 goods can be sent from one province of British South Africa, within the Union, without any Customs declaration being required, except in the case of medicinal spirits prepared from spirit the produce of the Union and a few similar exceptions.

Spirit for Manufacturing-purposes.—In the Government "Gazette" the Collector of Customs issues a notice amending the regulations for the supply of spirit in bond for manufacturing-purposes under rebate. It will now be possible for chemists to take out 5 gals, at a time from their bonded stock, and the privilege of obtaining spirit practically duty free, for manufacturing purposes, will extend only to licensed chemists. These new regulations are the result of the representations made by the Medical and Pharmacy Council.

Transvaal.

A FOOTBALL MATCH, organised by the Transvaal Chemists' Athletic Club, was played on the club's ground at Turf-

Chemists and the Turffontein Wanderers. The former comprised Gunn, Anderson, Smith, Birk, Young, Lipton, Mills, Goldberg, Neilson, Macdonald, and Hetherington. The Chemists ultimately won a well-contested game by five goals to two. Although the match was in the nature of a trial, the Chemists already feel they have some good footballers in their club. A large number of friends were interested spectators.

Cape Pharmaey Board.

A MEETING of the Colonial Pharmacy Board was held in the A MEETING of the Colonial Pharmacy Board was held in the Board-room, Cape Town, on Thursday, May 12. Present: Messrs. A. Walsh (in the chair), J. A. Mathew, G. Darroll, W. K. Mager, J. Parry, and G. R. Cleghorn. On the motion of the President, the following resolution was earried unani-

The members of this Board desire, as loyal subjects, to record an expression of their profound sorrow on the death of his Majesty King Edward VII., and of sympathy and condolence with the Royal Family in their bereavement.

On the motion of Mr. Mager, seconded by Mr. Mathew, the report of the Executive Committee and Secretary was adopted.—A communication in regard to a Contravention of the Medical and Pharmacy Act was eonsidered, and it was resolved to request the Assistant-Treasurer to draw the attenresolved to request the Assistant-Treasurer to draw the attention of the Criminal Investigation Department and Magistrates generally to Section 35 of Aet 34 of 1891, and Sections 3 and 8 of the Medical and Pharmacy Act Amendment Act No. 7 of 1899. In addition to the contravention referred to, instructions were given to the Secretary as to the necessary action to be taken in regard to three other eases of alleged contraventions of the Act.—No reply having been received to the letter addressed to the *Pharmacy Board of New South Wales* on February 15, 1910, in accordance with the resolution of February 10, 1910, this Board will not in future accept the certificates of the New South Wales Pharmacy Board as sufficient evidence of qualification for registration without further examination.—A communication was received inquiring whether a School Higher Certificate which did not include Latin would be accepted by the Board, provided a first or Ing whether a School Higher Certificate which did not include Latin would be accepted by the Board, provided a first or second class pass in Latin in the English College of Preceptors' examination was also obtained. The Sccretary was instructed to state that the Board is unable to go outside the Regulations, which require that English, Latin, and arithmetic must be included in the subjects of the examination for which the certificate is granted.—Matters relating to the Conference of Pharmacy Boards were discussed, and it was decided that owing to the Government stipulation that in the event of such a conference taking place the date shall be arranged to coincide with the Conference of Medical Councils, and as the Medical Council of this Colony has not yet sufficiently advanced its preparation for such a conference, this Board will vanced its preparation for such a conference, this Board will be unable to attend the conference called on May 16, 1910, at Bloemfontein, but trusts that some other date may be arranged suitable to all parties concerned. The President (Mr. A. Walsh) and Mr. J. Parry were appointed to attend the conference in the event of the meeting already called being postponed.—The Board adjourned for the Examination of Candi-Upon resuming, the following were deelared to have passed the examination:

W. P. Asher C. R. Benjamin H. E. Buxton

G. H. A. Morris R. J. Rollinck S. U. South

Two candidates failed to satisfy the examiners. On May 13 a special meeting of the Board was called for the purpose of holding an inquiry into An Alleged Contraven-tion of the provisions of the Medical and Pharmacy Aet by a duly registered chemist and druggist. After due delibera-tion the Board found that defendant had been a party to an act in respect of which an unqualified person was convicted of a contravention of Section 35 cf Act 34 of 1891 as amended by Act No. 7 of 1899, and decided that he should be repriby Act No. 7 of 1899, and decided that he should be repri-manded in writing under the hand of the President in terms of Sections 13 and 14 of Act No. 7 of 1899 for improper and unprofessional conduct, such reprimand to be duly noted in the official records.—The Board then went into committee to discuss the best means of Amalgamating the Acts at present in existence in the Cape Colony, Transvaal, Natal, and Orange Erree State, with a view to making the procedure uniform Free State, with a view to making the procedure uniform throughout the Union.—Registrations since last meeting: J. Patterson, J. S. Loxton, and A. Barkes. At this meeting: N. Mereer.

Pharmaceutical Society of Cape Colony.

A COUNCIL-MEETING was held at the Society's Rooms, Hout Street, Cape Town, on Thursday, May 19. Mr. W. Froembling, Ph.D., presided, and there were present Messrs. F. C. Mathew, G. R. Cleghorn, J. Patterson, J. Clayton Smith,

A. E. A. Tothill, C. L. Tayler, J. Sowden, W. A. Sleggs, J. Austin-Thomas, and H. R. Peck (Hon. Secretary). The President, before proceeding with the business of the meeting, made suitable reference to the death of King Edward VII., and on his motion it was resolved that a message of condolence with the Royal Family should be transmitted to the proper with the Royal Family should be transmitted to a quarter.—There was some discussion r_t the non-representation of the Cape Colony at the Medical and Pharmaey Conference, at that time sitting at Bloemfontein, but as no reliable information was before the meeting, further discussion was postponed.—As evidence of the flourishing condition of the Society, twenty new members were proposed.—A letter was read from Mr. G. W. Fowler, Mossel Bay, accepting the position of country member of the Council.—Replies to circulars recently sent out were received from all the Pharmaceutical Societies of the different Colonies, supporting the views of this Society re the patent-medicine stamping regulations, intimating that the extension of the tax to the rest of United South Africa was undesirable, and promising their support in future legislation.

Poisoning Cases.

Seven deaths from poisoning have been recorded since our last issue:

Carbolic Acid.—At Edinburgh, Margaret Crawford inten-

Carbolic Acid.—At Edinburgh, Margaret Crawford intentionally ended her life by taking this poison.

Copper Sulphate.—A Kentish Town pianoforte-maker named John Brewer (46) aecidentally poisoned himself by drinking copper-sulphate solution in mistake for water. Deceased had prepared a solution of bluc stone overnight in readiness for application to his horse.

Morphinc.—At Leeds, Theodore Cliff Town (33), doctor's dispenser, killed himself by taking morphine tablets.

Potassium Cyanide was used by Henry Herbert Goodwin (19), at Tottenham, for suicidal purposes. Deceased, who was studying analytical chemistry, possessed a delusion that he

studying analytical chemistry, possessed a delusion that he had contracted tuberculosis.

Prussic-acid poisoning caused the death of John Gardner (49) at Glasgow. Before he died, deceased informed his son that he had taken some poison by mistake. A gill bottle half full of prussic acid was found in Gardner's room.

Salt of Lemon was responsible for the suicidal death of Mary Elford (22), domestic servant, at Dunball, near Bridg-Mr. Herbert Abraham, ehemist and druggist, of Messrs. Gregory & Wrenn, Taunton, stated at the inquest that he had recently sold deceased the packet of salt of lemon produced in court. She was then perfectly quiet and composed. The wrappers of three packages of the poison were found in the girl's bedroom.

Veronal, taken for sleeplessness, eaused the accidental death of Catherine Paul (38), of Woolwich. Deceased had seen an invalid lady taking veronal tablets for insomnia, so she purchased a quantity for the same purpose. She had taken about 125 grains of the narcotie.

Poison Licences.

(Poisons and Pharmacy Act, Sec. 2.)

Notices of Application.

Castle Douglas.—Andrew Dobie, ironmonger, Warwick House. [Application of last year was refused.]

Cumberland.—James J. Armstrong, grocer, etc., Gosforth. LANCASHIRE.—John Parker, Post Office, Catterall, Garstang. Rugby.—John Liddington, eorn merehant, 25 Albert Street.

Application Granted.

Duns.—The Town Council has granted the application of Mr. Allan Wightman, for George R. Farnington, merchant,

Renewals.

Berwick-upon-Tweed.—W. Anderson, florist, Hide Hill. Cardiff.—The application of Messrs. Wm. Lewis & Sons for a renewal of their poison-licence has been granted by the Corporation's Health Committee.

RYDE (I.W.).—Two licenees have been renewed by the Town Council.

SHREWSBURY.-The Town Council have renewed three poison-lieences.

Exports of potassium iodide from Japan are increasing. During April this year they were 5,114 kin, and for the four months (January-April) they have been 24,392 kin, against 13,086 kin in 1909 and 9,205 kin in 1908. Crude iodide exports in April were 2,488 kin, and for the four months 4,311 kin, against 9,427 kin in 1909 and 955 kin in 1908. [Kin=1½ lb.]

Legal Reports.

Trade Law.

Hudson's Extract of Soap.—The hearing in the action Hudson v. Gossage, which has occupied Vice-Chancellor Leigh Clare in the Chancery Court at Liverpool for twentynine days, concluded on June 17, when the Vice-Chancellor said he would give judgment on Monday, June 27.

National Cash Registers.—At Bloomsbury County Court on June 20, Judge Bacon declined to grant an adjournment in an action against the National Cash Register Co., Ltd., on behalf of whom Mr. Profumo stated that since there had been attacks by a weekly newspaper upon the company they had been inundated with actions. In consequence of litigation, the arrears due to the company amounted to hundreds of thousands of pounds. His reason for asking for an adjournment was that appeals are pending. Mr. J. D. Cassels, for the plaintiff, opposed the application. His Honour thought that to wait for the Court of Appeal or the House of Lords would be contrary to the purpose of his Court, which was primarily for the more speedy recovery of small debts.

Soda-crystals Dispute.—In the City of London Court on June 17, before Judge Rentoul, K.C., an action was brought by the District Chemical Co., Ltd., 1 Fenchurch Avenue, E.C., to recover the sum of 2*L*. 15s. for a ton of soda-crystals delivered to the defendant, Mr. Fredk, E. Jackson, 1 Baroness Road, Bethnal Green. Defendant counterclaimed for 1*L* for loss of customers in having had bad soda delivered to him. After hearing counsel, Judge Rentoul said there had been a misunderstanding on both sides all the way through. The plaintiffs were in the wrong at the start in sending defective soda. They had admitted it by offering to take it back. Defendant would now return the soda at his own expense. Plaintiffs would have judgment for the amount claimed if that was done within a week. There would be no costs on either side, and the counterelaim would be dismissed.

Cyllin and Soft Soap.—Before Judge Shand, at the Liverpool County Court on June 15, James Arthur Bateson (trading as Barclav & Co.), soap-manufacturer, of Freemason's Row, Liverpool, sued the Jeyes Sanitary Compounds Co., Ltd., 66 Cannon Street, London, for 20%, balance of a consignment of soft soap, in which it was stipulated there was to be 10 per cent. of cyllin. Mr. Proctor, for the plaintiff, stated that the soft soap was manufactured on the specific order of defendants. Mr. Cuthbert Smith, for defendants, contended that the article supplied to them was too thin for soft soap, and that they could not sell it as such. Expert evidence having been given, Mr. Smith submitted that the real question was: "Is this soft soap?" and with this Mr. Proctor agreed, but he submitted that the order was for soft soap with 10 per eent. of cyllin in it, and that was what was delivered. No particular consistency was stipulated for. To this Mr. Smith replied that a "10 per eent cyllin soft soap" was ordered. His Honour found for plaintiff for the amount claimed, with costs.

Country Customers and London Courts.—In the City of London Court on June 17, before Judge Rentoul, K.C., the case of Joseph Rank, Ltd., v. Knight was heard. The plaintiffs sued the defendant, who is in business at South Hayling, Hants, for 14t. 16s. for goods supplied. The defendant attended and said that he could not pay the amount at once. Judge Rentoul, K.C., said he very much objected to tho system by which firms sent travellers round the country to obtain orders, and then sued the customers in a London Court. They often could not attend, and it would become a scourge if that sort of thing was permitted. He would have to disallow all the costs of such litigation if it continued. The defendant should have been sued in his local County Court instead of bringing him to London. The plaintiffs' solicitor said it would be a much greater seourge on thousands of commercial firms in London if they had to go to County Courts all over the country with their books and clerks proving their various cases and at the expense of the defendants. The account was payable in London, therefore the Court had the jurisdiction. Judge Rentoul knew that the plaintiffs had the technical power to do what they had done, but he did not think it ought to be allowed. He gave judgment for the plaintiffs, with costs.

Traveller's Guarantee Premium.—In the Manchester County Court on June 20, John Copeland, commercial traveller, Withington, claimed 6t. 16s. for breach of contract from William Carr Hebden, manufacturing chemist, Halifax. The plaintiff's case was that he was engaged by the defendant on April 4, subject to a month's notice on either side. He was dismissed on April 16 without any such notice, on the ground that he had not found a guarantee from an insurance company. His reply to this was that he was prepared to find the guarantee if his employer would pay the premium fee of

50s. The defence was that Mr. Hebden had never agreed to pay the premium fee. His Honour, after hearing the evidence on both sides, pointed out that as the employer had broken the agreement he was ealled upon in law to prove that he was justified. From the evidence, he was satisfied that two reputable citizens were ready to sign the necessary bonds for the plaintiff, and that an insurance company would have issued the necessary guarantee if the premium had been forthcoming. Mr. Copeland, in one of his letters, distinctly wrote that if Mr. Hebden would pay the premium he was quite willing to give a guarantee. Mr. Hebden never repudiated that he had agreed to pay, and Mr. Copeland was entitled to consider the agreement in conjunction with the letters. Judgment was entered for the plaintiff for the sum claimed, and eosts.

High Court Cases.

[Unless where otherwise stated the actions are in the High Courts of Justice, London.]

"Antiformin" Appeal,

In the Court of Appeal on June 21, the Master of the Rolls, with Lords Justices Farwell and Kennedy, heard an appeal in the case of the Scarborough and Whitby Breweries, Ltd., v. Sutton & Phillips, Ltd., in which the defendants asked for judgment or a new trial. The appeal was from the judgment of Mr. Justice Lawrance on a verdict of a special jury reported in the C. & D., April 23, p. 633.—Mr. Terrell, K.C., for the appellants, contended that notwithstanding the finding of the jury the defendant was entitled to judgment, and that the Judge was wrong in leaving the case to the jury. It will be recalled that the respondents purchased from appellants 10 gals. of Antiformin, an antiseptic vatcleaning agent, and when they used it it was said to have spoilt the beer. The injury was said to have arisen from the use of the material in a new way. The defendants had sent a pamphlet round to the trade describing the merits of Antiformin, and the plaintiffs had received one in the usual course, but there was no cyidence to connect that pamphlet in any way with the order, and it could not therefore be said to form part of a contract. The whole question turned upon whether there was a warranty expressed or implied, and in the absence of the pamphlet there was no evidence of such warranty.-Mr. Edward Morton, K.C., for the respondents, said he did not claim that the goods had been purchased on a written contract, but to the order and the invoice there was the collateral undertaking of the pamphlet, which made it a contract.—The Master of the Rolls said that as it had not been shown that the pamphlet had been referred to in connection with the order it could not be regarded as part of the contract. The Judge in the Court below ought to have said that there was no cause of action, and the appeal must therefore be allowed. Lords Justices Farwell and Kennedy concurred.—The appeal was accordingly allowed with costs, and the usual order made as to money paid into Court by the appellants.

NATIONAL CASH REGISTER APPEAL,

Lords Justices Vaughan Williams, Fletcher Moulton. and Buckley, in the Court of Appeal on June 21, heard the appeal of the plaintiff in the case of Riley v. National Cash Register Co., Ltd., which was tried by Mr. Justice Ridley and a special jury, and reported in the C. & D., Feb. 12, p. 247. The plaintiff, John Roberts Riley, a tobacconist, Accrington, sued the defendants for damages for having been induced to enter into a hiring and purchase agreement for a cash register by the alleged false and fraudulent statements of the agent of the defendant company. Mr. Riley alleged that the agent induced him to sign what the agent said was an order form, but was really a hiring and purchase agreement for the machine for 43%, and that he was told that the company would repurchase the machine any time within five years for 251., and that the machines had never been reduced in price. Defendants denied that the plaintiff was induced to buy the machine by the false statements of the agent, or that they ever authorised their agent to make any false statement on their behalf. At the trial the learned Judge non-suited the plaintiff, and entered judgment for the defendants on both claim and counterclaim. Against this judgment the plaintiff appealed. Mr. Maenaghten addressed the Court on his behalf, submitting that

Mr. Justice Ridley was wrong in withdrawing the case from the jury. Mr. Lush, K.C., for the defendant company, contended that the only thing that induced the plaintiff to buy the machine was the promise of repurchase, and this he had never suggested was at all dishonest. He (counsel) therefore submitted that Mr. Justice Ridley adopted the right course in withdrawing the case from the jury and entering judgment as he did .- Their Lordships eventually decided that there must be a new trial of the action. The plaintiff was allowed the costs of the appeal, the defendants to pay 2001. on account of the difference between the costs in the High Court and County Court. The remainder of the costs will abide the result of the rehearing.—Mr. Lush unsuccessfully applied for a stay of execution as to the costs, with a view to taking the matter to the House of Lords before the case is retried.

FINANCING A CHEMIST.

In the Court of Appeal, before the Master of the Rolls and Lords Justices Farwell and Kennedy on June 22, the case of Mayhew v. Boyes was heard upon the application of the plaintiff for judgment or new trial in the action which was tried before Mr. Justice Coleridge and a common jury in the King's Bench Division (see C. at D., February 26, p. 315, and April 23, p. 632). The action was in respect to a promissory note given in respect to a loan for financing a chemist's business, plaintiff suing to recover 1071., and defendant counterclaiming for 25l. commission. Mr. Justice Coleridge, upon the findings of the jury, entered judgment for the defendant, and from this decision the plaintiff now appealed. Mr. Edward Morton, K.C., now appeared for the appellant, and Mr. Sturgess followed on the same side. Mr. Mallinson spoke for the respondent. On Thursday Mr. Shearman followed on the same side, and Mr. Sturgess having replied, their Lordships dismissed the appeal with costs.

Papier Poudré Toilet-preparations.

On June 23 Mr. Justice Parker, sitting in the Chancery Division, heard a motion in the action "Papier Poudré, Ltd. v. Louis Laffite & Co." (see C. & D. June 18, p. 912). Mr. Mark Romer, K.C., on behalf of the plaintiffs, said his clients were the manufacturers of a toilet-preparation known as "Papier Poudré," which had been on the morket for about twenty years, and what they wanted was an injunction to restrain the defendants from selling a similar preparation under the same name. Plaintiffs evidence showed that a number of other traders had in the course of the last few years made a similar toilet-preparation, but in each case it had been called by a different name, and the defendants were the only people who had chosen the same title as plaintiffs. Defendants said that the name Papier Poudré simply meant "powder paper," and, that name simply describing the preparation, they were entitled to use it. That excuse, said counsel, did not seem very convincing, but he thought the evidence on both sides would be rather conflicting, and therefore he did not wish to go into it now, but at the action. If the defendants would undertake to keep an account until the matter came on for hearing that would be sufficient. Mr. Lightfoot (for defendants) said he was quite willing to do that. Counsel added that there were also actions pending against certain small traders, including chemists who had sold the preparation. Of course the chief action was against the manufacturers who supplied the others. If an injunction was obtained against the manufacturers, the others would abide by it. Mr. Romer said he could not say anything about that. The best thing was to proceed on the pleadings, and then they would know what the issue was. His Lordship suggested that the actions should all be taken together. Mr. Romer said that would be the better course, and Mr. Lightfoot agreed.

His Lordship said he would make no order now except that the defendants should keep an account until the matter was dealt with.

POISONS AND PHARMACY ACTS.

At the Sheffield County Court, before Judge Benson, on June 16, the Council of the Pharmaceutical Society of Great Britain sought to recover from William Lewendon, an assistant in the employ of Messrs. Brooke Bray & Sons,

nurserymen and seedsmen, 344 Sharrow Lane Road, a penalty of 5l. he was alleged to have incurred by having sold a certain poison—viz., nicotine—contained in XL-All vaporising fumigator. Mr. A. Neal appeared for the Society, and Mr. J. E. Wing defended. A licence was issued by the City Council to Mr. Brooke Bray, a partner in the firm employing the defendant, and the question at issue was whether or not the defendant was protected by the licence. Mr. Wing asked for an adjournment to enable him to look into the cases, and this his Honour acceded to.

Sale by Licensed Vendors' Employé.

At the Kingston County Court on June 17, Judge Harington delivered judgment in the action raised by the Pharmaceutical Society of Great Britain against William James Nash, an assistant to James Nash & Sons, nurserymen and florists, 11 High Street, Wimbledon, for the recovery of 5l., the penalty imposed by Section 15 of the Pharmacy Act, 1868, for the illegal sale of poison. A full report of the hearing of the case appeared in the C. & D. of June 11, pp. 39-45. Mr. W. S. Glyn-Jones, barristerat-law, conducted the case for the plaintiffs at the hearing, but was not present when judgment was given. Mr. T. G. Dobbs, solicitor, Worcester, appeared, as on the previous occasion, for the defendant.

Judge Harington, in delivering judgment, said: In this case the Pharmaceutical Society claimed to recover from the defendant the sum of 5l. as a penalty for selling poison contrary to the provisions of the Pharmacy Act, 1868, and the Poisons and Pharmacy Act, 1908. The facts were not in dispute. On March 31 a detective employed by the Pharmaceutical Society called at a shop, No. 11 High Street, Wimbledon, where James Nash carries on the trade of a nurseryman and florist under the style of James Nash & Sons, and is licensed under the Act of 1908 to sell certain poisons. Ho asked for and purchased a half-pint bottle of a poisonous insecticide called "XL-All Insecticide. The detective was served by the defendant, James Nash, junior, who was an assistant to his father, who carried on the business. At the time of the purchase James Nash, senior, was not in the shop. The bottle of "XL-All' insecticide contained 133 grains of nicotine, a poisonous vegetable alkaloid within the schedule of the Poisons and Pharmacy Act, 1908. In these circumstances the Pharmaceutical Society claimed a penalty of 5l. under Section 15 of the Pharmacy Act, and Section 2 of the Poisons and Pharmacy Act, 1908, from James Nash, junior, for selling a poisonous substance without being a person duly licensed under the latter Act. for the selling of poisonous substances specified therein. The Act of 1868 was parsed to safeguard the public against the sale of poisons by persons lacking a competent and practical knowledge in respect of them, and Section 15 provides that

"Any person who shall sell or keep an open shop for the retailing, dispensing, or compounding poisons . . . not being a duly registered pharmaceutical chemist or chemist and druggist . . . shall for every such offence be liable to pay a penalty or sum of five pounds, and the same may be sued for, recovered, and dealt with in the manner provided by the Pharmacy Act for the recovery of penalties under that Act "—

that is, by plaint in the County Court. We are not concerned in the present case with the question of keeping open shop, but only with that of selling a poison. From the passing of the Act of 1868 up till April 1, 1909, when the Poisons and Pharmacy Act of 1908 came into operation, nobody but a duly registered pharmaceutical chemist [or chemist and druggist] could sell poisons scheduled under the Act. The Act of 1908, Section 2, provides as follows—I only quote the material words:

"So much of the Pharmacy Act, 1868, as makes it an offence for any person to sell... poisons, unless he is a duly registered pharmaceutical chemist or chemist and druggist... shall not apply in the case of poisonous substances to be used exclusively in agriculture or horticulture for the destruction of insects... which are poisonous by reason of their containing arsenie or tobacco or the alkaloids of tobacco" (as in the present case), "if the person so selling" (and these are the important words) "is duly licensed for the purpose under this section by a local authority... But nothing in this section shall exempt any person so licensed from the requirements of any other provision of the Pharmacy Act, 1868, or of the Arsenic Act, 1851, relating to poisons."

It appears to me, therefore, that the only point I have to decide is as to the interpretation to be put upon the words: "The person so selling" in the Act of 1908. I cannot think that it was the intention of the legislature by that Act to relax the public safeguards in connection with the sale of poisonous substances. All that the Act appears to me to do is to enable persons-other than duly registered pharmaceutical chemists-to sell, where the requirements of the neighbourhood demand it, these poisonous substances for agricultural purposes, but under restrictions equally stringent with those of the Act of 1868. And those restrictions are that the person who sells must be duly licensed by the local authority. Under the Act of 1868, for the purposes of that Act, the seller must be a registered pharmaceutical chemist [or chemist and druggist]. Under the Act of 1908, for the purposes of that Act, the seller must be a licence-holder under the local authority. In this case James Nash, senior, trading as James Nash & Sons, at 11 High Street, Wimbledon, was on March 31 last licensed by the Borough Council of Wimbledon to sell thereat, that is 11 High Street, Wimbledon, poisonous substances under Section 2 of the Act of 1908. It was contended that, though James Nash, senior, did not personally sell or superintend the selling of the poisonous substance in question, the provisions of the Act have been complied with in that the sale was made at 11 High Street, Wimbledon, the premises whereat he was licensed to sell; and the fact that the poisonous substance was handed over by the licence-holder's assistant did not make the transaction a sale by the assistant. The question then is: Who was the seller? There is unquestionable authority on that point under the Act of 1868. Assuming that I am right in holding that the relative positions of a registered pharmaceutical chemist, under the Act of 1868, and a person licensed by the local authority under the Act of 1908, are similar, it seems to me that those authorities would apply equally to the latter Act. There are two authorities only to which I need refer. First, the case of the Pharmaceutical Society v. the London and Provincial Supply Association, Ltd. (reported in 5 Ap. Cases 857). There, in the course of his judgment, Lord Selborne says:

"The aet of selling, the act of compounding, and every other definite and particular act mentioned in the first section, and the sections by which penalties are imposed are struck at, whether the person who does them is a principal to whom the business belongs, or anyone whom he employs to earry on the business."

A little later he says:

"I will add that regard to the mischief which beyond all controversy the Act was intended to prevent leads necessarily to the same conclusion—namely, that he who sells, whether he be master or servant, whether he be the principal or a person to whom the conduct and management of sales is delegated, is struck at by the fifteenth section, because otherwise a very wide door would be opened to the evils which the Act was intended to guard against."

The only other case I need refer to is the Pharmaceutical Society v. Wheeldon (reported in 24 Q.B.D., 683). That case was heard in 1890, and was an appeal from the County Court. The County Court Judge decided that an unqualified assistant who was in charge of the shop of a duly qualified chemist, and had sold a poison, his employer not being present or supervising the sale, had incurred the penalty. That decision was upheld by the Divisional Court, consisting of Baron Pollock and Mr. Justice Hawkins. Mr. Justice Hawkins, in the course of his judgment, said:—

"The object of the Act was beyond all other considerations to provide for the safety of the public . . . and the whole object of the Act would be frittered away, and the Act itself become a dead letter, were we to declare by our judgment that an unqualified assistant can lawfully, with impunity, sell any of the pois is to which the Act applies, unless upon each occasion of such sale he acts under the personal supervision of a qualified employer or a qualified assistant to such employer."

It appears to me that it was not the intention of the legislature, when the Act of 1908 was passed, to relax the restrictions imposed by the earlier Act; and that the observations of the learned Judge in that case apply equally to the unlicensed assistant of a duly licensed employer under the later Act. In my opinion, therefore, the de-

fendant in the present case has incurred the penalty. The case of the Pharmaceutical Society v. White (reported in 1901 1 Q.B., 601), which was cited on the part of the defendant, is not in point. In that case the County Court Judge found, as a fact, that the defendant was not the seller of the poison within the meaning of the section, but was in the position of a canvasser for a company, with authority to receive money on their account. The Court of Appeal held that, there being evidence to support the County Court Judge's finding of fact, the court was bound thereby. Nor do I think that the provisions of Section 17 of the Act of 1868 have any bearing on the present case. That section makes it unlawful to sell any poison unless properly labelled, and for the purposes of that section the person on whose behalf any sale is made by any apprentice or servant shall be deemed to be the seller. That, if or servant shall be deemed to be the seller. That, if it does not necessarily mean beyond all doubt, naturally implies-says Lord Selborne in the case I first referred to—that this is a special construction for the purpose of that particular section, and that it is not to be extended to sales generally when mentioned in other sections in the Act. For the reasons above stated, I think the plaintiffs are entitled to recover in this action, and there must be judgment for them for the amount claimed.

Mr. Dobbs (for defendant): May I ask your Honour for

leave to appeal?

The Judge: Yes. Is there anyone here representing the

Pharmaceutical Society?

Mr. Dobbs: No, your Honour. Unfortunately there has been some misunderstanding, for Mr. Glyn-Jones was to have been here. Mr. Quarrell, on the other hand, was unable to get to court to-day, and Mr. Quarrell asked me to say so. I do not know if any application is to be made.

After consulting with Mr. Quarrell's clerk, Mr. Dobbs said: "He asks me to ask for costs on the higher scale." (Laughter.)

The Judge: Well, I cannot resist your application.

Sale on Licensed Company's Premises.

In the City of London Court, before Judge Lumley Smith, K.C., on June 21, the Council of the Pharmaceutical Society of Great Britain, through Mr. Richard Brenridge, the Registrar of the Society, 17 Bloomsbury Square, sued Mr. A. J. Pecover, 17 Broad Street Place, E.C., assistant to Hobbies, Ltd., for 5l., the amount of a penalty incurred by him on January 19 in selling poison—to wit, nicotine—contained in a bottle of "XL-All Fumigator," contrary to the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1868, as amended by the Poisons (instructed by Messrs, Flux, Thompson & Quarrell) appeared for the plaintiffs, and Mr. R. O. B. Lane (instructed by Messrs, Rutter, Veitch & Bond) for the defendant.

MR. GLYN-JONES OPENS THE CASE.

Mr. W. S. Glyn-Jones: Your Honour, this is a case to recover a penalty of 5l. which was incurred by the defendant on January 19 last in selling poison, which was nicotine, a poisonous vegetable alkaloid, contained in a bottle of "XL-All Fumigator," contrary to the provisions of Section 15 of the Pharmacy Act. 1868, as amended by the Poisons and Pharmacy Act, 1908. I have a copy of the various statutes here, your Honour. Why is it contrary to them? In that he being unqualified and not being a registered chemist sold a poison. [Counsel here read Section 15 of the 1868 Act from his book, p. 221.] Your Honour, the words applicable here are, he is a person who sold. The words are as follows: "Any person who shall sell or keep an open shop." But there is undoubted authority for saying that these are two separate offences. I think I shall be able to satisfy your Honour that any person who carries out the physical act of selling is a person hit by this section. Your Honour, the poison is an "XL-All Fumigator," that is a proprietary article put up for use in horticulture for fumigating plants, and it contains nicotine. I am instructed that it contains a sufficient amount of poison here to kill over a hundred people. I do not think it will be disputed-in fact, I think the defendants admit-that the article is a poison and comes

within the meaning of this section. If the matter rested there, your Honour, I think in all probability this case would not be defended, but in order to save time I have somewhat anticipated what the point of the defence is. In 1908 we have what is in effect an amended Act, that is on p. 232. Your Honour will see Section 2 is a provision enabling, under certain circumstances, certain people who are not registered chemists to be licensed in order that they may sell these poisons without being amenable to Section 15. Your Honour will see it says: "So much of the Pharmacy Act, 1868, as makes it an offence for any person to sell or keep open shop for the sale of poisons, unless he is a duly registered pharmaceutical chemist or chemist and druggist and conforms to regulations made under Section 1 of that Act, shall not apply in the case of poisonous substances to be used exclusively in agriculture or horticulture for the destruction of insects, fungi, or bacteria, or as sheep-dips or weed-killers, which are poisonous by reason of their containing arsenic, tobacco, or the alkaloids of tobacco, if the person so selling or keeping open shop is duly licensed for the purpose under this section by a local authority, and conforms to any regulations as to the keeping, transporting, and selling of poisons made under this section; but nothing in this section shall exempt any persons so licensed from the requirements of any other provision of the Pharmacy Act, 1868, or of the Arsenic Act, 1851, relating to poisons. I understand the defence in this case will be that the defendant is an assistant to a limited company, and that that limited company is licensed under this section, and that their licence exempts the defendant from this penalty. Indeed, I believe that is the main point in issue in this case. It is admitted that this is a poison which comes within the purview of this amended Section 2 of the 1908 Act.

His Honour: Do you admit that? Is that common

ground that it is a poison?

Mr. Lane: Yes, but I do not admit the hundred men. Mr. Glyn-Jones: My friend does not admit that there is enough to kill a hundred people.

Mr. Lane: I do not; but it is a poison. His Honour: It would kill a hundred insects?

Mr. Lane: I am ready to admit that.

THE EVIDENCE.

Mr. Glyn-Jones: I think I have said enough at this stage to put the point, and I propose calling my evidence im-

mediately. I call Mr. Waldock.

George Waldock then deposed that he went to 17 Broad Street Place, E.C., which is a florist's and seedsman's shop, and not a chemist's shop, where Mr. Pecover attended to him and sold to him a sealed package of "XL-All-Fumigator." This was given to Mr. Moon, of the Pharmaceutical Society.

Mr. Harry Moon, the next witness, was about to be examined by Mr. Glyn-Jones, when Mr. Lane asked if he was the analyst, because, he added, he was prepared to admit the article sold was a poison to save the expense of the analyst, who comes all the way from Exeter.

After a brief conversation between Bench and Bar on this point the evidence was proceeded with, Mr. Moon stating that he received the bottle from Waldock, and on May 2 sent it by registered post to Mr. Thomas Tickle, analyst. A long cross-examination by Mr. Lane ensued. First, witness was taken over the circumstances which led up to the inquiry by the Departmental Committee on Poisons and the Poisons and Pharmacy Act, 1908. This was to show that one object of the Act is to license florists, ironmongers, and others to sell fumigators and sheep-dips. Witness would not admit that the danger of a sealed packet of poison is less than that of one compounded by a chemist. Mr. Lane handed witness the licence granted to Hobbies, Ltd., which was in force until March 31, 1910, and has since been renewed. The terms of the licence were read, and Mr. Lane put questions in regard to the method of granting licences, inquiries made, and "fitness" of the applicants. Mr. Glyn-Jones considered these questions irrelevant, and that witness's opinion as to what constitutes "fitness" had no bearing on the case. His Honour agreed, and Mr. Lane proceeded with his crossexamination, dealing particularly with the licence granted to Hobbies, Ltd., its renewal, and the terms. He then

brought in the correspondence which ensued between the Registrar and the defendant subsequent to the sale of the poison, and this led up to questions by Mr. Lane to

One would like to know, and traders are entitled to know, in the circumstances, would you be prepared to go on collecting as long as you can get the 57.?—If we obtained evidence that offences are still continuing, replied witness.

You would not trouble to come to the court as long as the 51. was paid?—The defendants can come to the court if they like. They can come to court; but what I mean is, you would be

prepared to sit in your tent and take the 5l. ?-If they liked to pay up.

Mr. Lane: Exactly. That puts rather an interesting con-

His Honour: Exactly. That puts rather an interesting construction on your attitude in the matter.

His Honour: It is the only remedy which the Act gives them. It does not give any Court the power to grant an injunction or anything of that sort.

Mr. Lane: No.
His Honour: What else can the Pharmaceutical Society do but press for the penalty?

Mr. Lane: Unless it were disputed they would have to come to the court. If it were not disputed, and if the 51.

His Honour: They have no alternative.

Mr. Moon, in re-examination by Mr. Glyn-Jones, explained that in chemists' shops assistants who sell poisons independently must be qualified by examination, a fact which his Honour noted by a question on the point.

Mr. Thomas Tickle was the next witness, and he proved that the fumigator contained 160 grains of nicotine, a poisonous vegetable alkaloid. ["What is an alkaloid?" asked his Honour. "It is a technical term," replied Mr. Glyn-Jones, "'All poisonous vegetable alkaloids' is the description in the Schedule."] Witness considered 160 grains to be 160 fatal doses.

Mr. Glyn-Jones produced the Register of Chemists and Druggists to show that defendant's name is not on it. Mr. Lane admitted also that defendant is not licensed under

Section 2 of the 1908 Act.

This closed the case for the prosecution.

MR. LANE FOR THE DEFENCE.

Mr. Lane then addressed the Court for the defence. He said that his clients, Messrs. Hobbies, Ltd., being a limited company, find it practically impossible to carry on this particular trade under any other conditions than those which we find existing here.

His Honour: Are you going to contest that if it was not for the Act of 1908 they would be liable to pay this penalty

under the previous Act?

Mr. Lane: I agree that if it were not for the Act of 1908,

which has made the whole change.

Counsel proceeded to narrate how the Act of 1908 was brought into being so that a class of people who were not in the position of compounding and selling poisons like chemists should be enabled to sell in certain forms certain poisons required by agriculturists and horticulturists. He called his Honour's attention to the fact that in this case the poison was sold strictly in the form required by the Privy Council Regulations 13 and 15. No. 17, as to the fitness of the licensee, was also read, and, proceeding, Mr. Lane said:

The suitableness and fitness of the proposed licensed holder is a matter to be considered, and is considered, and that, of course, was done here. Now, one comes on to this, and I think it is a matter for consideration, while one is on the question of issuing the licence itself. Supposing anything is done, it once being discovered, or being admitted by the authority that the proposed licensees and the holders are fit and proper, and the proposed premises are suitable—supposing something is done in the course of the year, some improper person is employed, or the premises from some reason or another are unsuitable, entirely again on the analogy of the liquor-licence, the course open, and I say the proper the liquor-licence, the course open, and I say the proper course, and what was intended to be the course, was to make complaint to the authority issuing the licence, who can deal complaint to the authority issuing the licence, who can deal with the matter upon renewal. Again, when the licence itself is granted advertisement has to be made just in the same way with regard to that as with regard to application for a new licence, advertisement has to be made of the intention to apply so that any person, among others the Pharmaceutical Society, who are, of course, so anxious to protect the public in this case, may come and say: "This licence shall only be granted in a

certain way, or to certain persons, or with regard to certain premises." That, I say, is entirely contemplated, and obviously contemplated, by the framers of this Act; and for this reason—that they intended to put this matter on an entirely different footing from that upon which it stood under They found that legislation was too drastic and the 1868 Act. stringent, and was not legislation any further to be pursued that is to say, without being qualified in the way in which it is now qualified—and therefore they set up this particular machinery. Now, the licence being granted, you have granted to Hobbies, Ltd. What is the position? First of a First of all, take the point with regard to their position as a limited company. I suppose it is going to be suggested—it may be suggested here—that either a private employer or a limited company, if he has fifty assistants or if he has twenty assistants, must have a licence for each of them to take these packets down off the counter and hand them to the purchaser. Of course, one knows in construing an Act it is not necessary to say, "See what an absordity that would lead to ' is of some assistance when you have to see entirely, as I submit, what is intended—it is some assistance to see what would be the most reasonable construction. You have here a limited company which, of course, can only act by its manager and servants. A limited company cannot itself sell poisons across the counter: it can only act by its manager or servants. If the Legislature contemplates—and, of course, it does contemplate what the position here would be-it cannot be got away from that Hobbies, Ltd., are licensed, and properly licensed. If that is so, how are they to act otherwise than through their servants? It is impossible. It was con-templated that they should sell, and they have so'd. The only answer to it is that if Messrs. Hobbies like to employ one manager and fifty assistants, they must have a particular licence for each one. I say that in view of what one sees as the object of the Legislature, and in view of the words of the section here, and the intention which undoubtedly is explained in Section 2, and which shows that any such conclusion is absolutely unreasonable. I am taking now, first of all, what I think is the strongest case—that of a limited company. It is very probable that a large number of people who trade in these substances are limited companies. Day by the year 1908 the Legislature passed this particular Act, that was perfectly well known. I think one of the largest people who made representations to that particular Commission was Boots, Ltd., very big cash chemists, and, of course, they were all there. It was perfectly well known that a limited company were going to carry on business in this way. Now I ask this—and I think it is difficult to get an answer to it: How can a corporation, how can a limited company, carry on business in this way other than through its managers or servants?

His Honour: They could keep open shop.

Mr. Lane: They can keep open shop, but they cannot sell. Such acts as that must be done by their servants. so, if it is contemplated—because no one can say for a moment it is not contemplated—that a limited company should sell they can only do it in the only way known to the law, and that is by their properly accredited representatives. these circumstances, as has happened here, the local authority, the London County Council in this case, inquires into the position of Hobbies, Ltd., inquires as to whether they are people who have proper premises, and are likely to employ reasonable people to carry out these difficult and arduous duties of handing across the counter a packet; if they are so satisfied, they license Hobbies, Ltd. That being so, I will direct your Honour's attention to the section. I do not know whether my friend is going to cite authoritics here, but if he is, possibly your Honour will give me an opportunity of saying a word, if necessary, in reply. I myself venture to express the humble opinion that there are no authorities which can be said to expressly bear on this subject; certainly all the cases that have been decided—a certain number of them—were under the old Act of 1868 and the older Act of 1851. The strongest point I make here—I must ask your Honour to give the greatest weight to it is that we have entirely new legislation based on the new state of affairs that has risen up. One knows that the Courts from time to time have had to deal with that position

in mercantile and every other kind of law.

His Honour: I am told by Mr. Glyn-Jones that although
a limited company can keep a shop, the persons who sell must be qualified chemists. That has been the practice.

Mr. Lane: That has been the practice, and the answer to that is there was a decision—my friend will probably quote it—where it was decided that a limited company could not be made liable under the section.

His Honour: I was counsel in that case, and it went to the House of Lords.

Mr. Lane: Yes; I think your Honour was in many of those

His Honour: I have forgotten most of them.

Mr. Lane: It is with some diflidence that I tell your

Mr. Lane: It is will some difindence that I tell your Honour anything about them.

His Honour: They decided there he was not a person.

Mr. Lane: Yes, for this purpose; but my point is this that you pass to an entirely different state of affairs. What was contemplated, and what was dealt with by the Act of 1868, was the case of pharmaceutical chemists. There they were dealing with people who had to compound, physically and accurately, with dangerous poisons that those people should be properly qualified people; and if a man had a shop, he himself being qualified, but liked to leave a person with no qualification to mix up all sorts of substances and sell them—that was a state of affairs not to be permitted, and legislation was directed to that end. But here you have and regislation was directed to that end. But here you have an entirely different state of affairs—absolutely and entirely different; and you have, I submit with great respect, to deal with it in the way the Courts have always had to deal with changes in the habits and customs and the facts to which Acts of Parliament are applied, and that has to be taken into consideration. Therefore upon that I say this Section 2 was inserted in the Act of 1908 for the express purpose of giving the facilities which, I say here, we are entitled to exercise. Of course, when dealing with an Act of Parliament it is dangerous to allude too much to a common-sense argument; one has to deal with the words and construe them as lawyers, and it certainly does not appeal to common sense to say that in this paricular transaction, such as we know it to be, people licensed in the way Hobbies, Ltd., are being licensed, under the conditions and regulations under which they hold the licence, should not able to carry out this transaction without danger to any-That does seem to make a large demand on one's common sense.

Ilis Honour: Are there any regulations, such as there were under the former Act, about taking the name and address of the person who buys?

Mr. Lane: Yes. Mr. Glyn-Jones: That is Section 17 of the Act of 1863, which still applies.

His Honour: That is under the old Act?

Mr. Glyn-Jones: Yes.

His Honour: Are there any similar regulations with regard to people buying this stuff that a man is bound to give his name and address?

Mr. Glyn-Jones: The answer to that is the licence is granted subject to Section 17 being complied with, and the regulations provide that Section 17 is to be printed on the back of the licence. You will find it on the back of the licence.

His Honour: He has to take his name?

Mr. Glyn-Jones: Yes.

His Honour: There is some check on it?

Mr. Glyn-Jones: Yes.

Mr. Lane: I do not want to raise any false point, but what my friend says is undoubtedly correct if Section 17 applies. My argument is that it does not apply. No suggestion is made here that I have not complied with Section 17. But as a matter of fact I have complied with it. I say that strengthens my argument as showing what it was the Legislature intended to do. They retained Section 17—they said for such purposes as may be necessary: still to rate this bind of the said of the sai may be necessary; still, to retain this kind of safeguard we apply Section 17 That is followed out, and express regulations are contained in regard to it. But for other purposes I say Section 15 does not apply. It is not possible, I think, to further develop one's arguments with regard to a corporation than I have done already. What I submit is that it is an argument which states itself, and I say there is no answer to it. Once you grant a licence to a limited company to trade in this way, the only way in which that limited company can trade is a way which is known to every lawyer—that is to say, by their proper representatives. That has been done in this case. Supposing there were fifty employés in a place like Gamage's—if they sell these things they might have thousands of employes, and each particular one would have to have a licence. That leads one into an absurdity. Then there is this. It was put some short time ago in another case—one ought to take every point in dealang with a new statute—in many cases in the country, such as agricultural districts, where such things as sheep-dips are suddenly required, arrangements have to be made for using it. Supposing a person who keeps a shop there is duly licensed—I am taking the case of a seller only, not a limited company—the case of an ordinary indiing with a new statute-in many cases in the country, such is duly licensed—I am taking the case of a setter only, not a limited company—the case of an ordinary individual who is a licensee, who has a person in the shop to assist him, and the licence has been granted by the local authority with full knowledge of the circumstances; but the particular man himself licensed happens to go away for a day. This particular sheep-dip is wanted: it is fifty miles to go to any other place where it can be obtained. Can it be said, in those circumstances, that the sheep-dip could not be sold, and if it were the person

would be liable? I submit it could not. I am putting this ease largely from the limited company's liability point of view. but I am quite prepared to argue it on the other as well.

His Honour: The section must have the same interpreta-

tion, whether it is a company or an individual. I think such an example of the man in the country who has an unlicensed assistant would be dealt with in the same way.

Mr. Lane: I think it would. I think probably the principles would be the same except one, which is this—that when you have your limited company it is impossible for the limited company to carry on business other than by someone else, and therefore, I submit, no system where someone etse, and therefore, I submit, no system where licences and certificates are required contemplates a double-barrelled licence. Take the case of an ordinary licence to sell intoxicating liquors. It has never been suggested by the wildest reformer that a barman or potman should be licensed as well as the licensce.

His Honour: The first Act did not contemplate that a company would come within the word "person."

Mr. Lane: The Act of 1868?

His Honour: Mr. Lane: No

His Honour: Where you have an amending Act like this, person" must mean the same in the one case as in the other.

Mr. Glyn-Jones: My friend will perhaps excuse me interrupting, but Section 3 of the 1908 Act deals with the whole difficulty in regard to companies, and it gets rid of the difficulty your Henour spoke of; in fact, it was the main reason of the 1908 Act to provide legislation for limited companies to sell poisons in general. And your Honour will find Section 3, Sub-section 4, of this Act provides the necessary material for limited-liability companies.

My Lance Wy Friend will leave to allow me to continue

Mr. Lane: My friend will have to allow me to continue

my argument.

His Honour: That gives the information I wanted. Mr. Lane: I am coming to that myself in a moment. That does not, as I say, deal with a limited company which is going to carry on business as pharmaceutical chemists, but that is my point; and that is the point which those instructing me do earnestly ask for decision on, because the position of traders in these matters is most uncertain. Again, my friend says Section 3 answers the whole thing. Section 3 deals with the position of limited companies who want to carry on business as pharmaceutical chemists. These people will not do it at all. I agrec, if this were only a question of carrying on the business of a pharmaceutical chemist, the criticism that "person" in one Act should mean the same as "person" in the other might be a just one. I am asking your Honour to deal with this on the basis that pharmaceutical chemists are not introded to be dealt with but the particular class of people. intended to be dealt with, but the particular class of people who are intended to be dealt with and have particular regulations provided for them as to their particular trading. If I might, I would just like to write down and hand up to your Honour—perhaps you would consider it—a suggestion as to a possible reading of the section. I do not propose to be much longer. What I would like to suggest is this reading. Without outraging the words of the statute, to give effect to it I think it would be reasonable to say: "Any person or corporate body who, not being a duly registered pharmaceutical chemist, ctc., shall for every such offence be liable, etc., provided always that Section 2 of the Act of 1908 shall not apply to the case of poisonous substances to be used exclusively in agriculture or horticulture if the person or corporate body so selling or keeping open shop is duly licensed." That, I say, is really the effect of what the Legislature intended—that is a construction which, I suggest, might possibly be put on this Act without doing any undue violence

His Honour (smiling): That is to be the head-note of my

decision.

Mr. Lane: If it is, I shall be perfectly satisfied. I will not Mr. Lane: If it is, I shall be perfectly satisfied. I will not say whether I should be surprised or not. My main argument is that we are a limited company. If my friend cites any authority which it is necessary to say a word or two about, your Honour will probably give me an opportunity of saving it.

Mr. Glyn-Jones asked the licence to be proved, but agreed that it should be taken as such. Mr. Lane intimated that his case was as stated.

His Honour: What is your view of the law, Mr. Jones?

MR. GLYN-JONES REPLIES.

" Mr. Glyn-Jones: It is this. With all respect, I think my friend has gone wrong, because he seems to draw some distinction between the objects of the 1868 Act and the 1968 Act, and he has referred to the 1868 Act as if it was an Act dealing only with pharmaceutical chemists or the business of pharmaceutical chemists. My friend put a number of questions to Mr. Moon about the various objects of these sections, but

fortunately the preamble of the 1868 Act puts this point beyond doubt. (The preamble was read, and part of Section 1.) Counsel, proceeding, said: The point I was making at the very outset was that the person who retails-the preamble says ' the safety of the public "—should be a person who "possesses a competent practical knowledge of the business." The section which creates the offcace—and the section which my friend admits imposes a penalty-would in this very case, but for the section in the 1908 Act, make it an offence to sell or keep open shop for the retailing and dispensing of poisons. In the case of the Pharmaceutical Society v, London and Provincial Supply Association [reference given] the point at issue was: Are companies persons within the meaning of this Section 15, and can they be prevented from keeping open shop or selling poisons? Your Honour is familiar with the arguments which were gone into, and it was pointed out, very much in the way my friend has endeavoured to point out in this case, that a limited company itself could not sell, and that a limited company could not qualify.

His Honour: The main argument was that a limited com-

pany could not have a widow. (Laughter.)
Mr. Glyn-Jones: My friend has not raised that point here. What I desire to draw your Honour's attention to is this. Lord Selborne, in giving judgment, distinguished between these phrases, "keep open shop" and "sell.":

"The act of selling, the act of compounding, and every other definite and particular act mentioned in the first section and in the sections by which penalties are imposed are struck at, whether the person who does them is a principal to whom the business belongs, or anyone whom he employs to carry on the business. The words 'keep open shop' may, perhaps, not be so; upon those words I will make an observation presently. But the word 'sell' is, and that the word 'compound' also is seems to me clear from that very clause in pound' the seventeenth section which I just now read: that 'for the purposes of this section, the person on whose behalf any sale is made by any apprentice or servant shall be deemed to be the seller. That, if it does not necessarily mean, beyond all doubt naturally implies, that this is a special construction for the purpose of that particular section, and that it is not to be extended to sales generally when mentioned in other sections of the Act.

If your Honour will read through the whole of these judgments, I think you will find I am right in saying that it the fact that a limited company, if it did carry on the busithe fact that a limited company, it it did carry on the business, would be bound to have in its employ qualified persons. That enabled the Court, if I may say so, to come to the conclusion that it was not necessary to strain the words of the Act to include "company," because they said the whole mischief can be prevented, seeing that the actual people who carry on the necessary acts of keeping open shop and who carry on the principal acts of sale must be qualified. Then, later on in this very case, Lord Blackburn, at p. 352, says:

"I hold distinctly that there can be no sale, whether a corporation be the ultimate vendor or not, unless a 'person meaning a natural person—manages the sale, and that natural person, if unqualified, would, in my mind, clearly become liable to the penalty under the Act."

Then there is the well-known case of Templeman $\it r$. Trafford,

in which Mr. Justice Grove said:

"The word 'sell' is contradistinguished from the words keep an open shop,' but there are sales which are not in 'open shop,' and those, I think, are referred to here, so that the section applies to all sellers of poisons, whether in a shop or elsewhere. I think that at the same time it imposes the penalty of the sale.

The passages I have read are, I submit, very important observations: I think I might almost call them more than dicta of the House of Lords in those cases upon companies. Now the actual point as to assistants has been decided in the case of the Pharmaceutical Society r. Wheeldon. There Mr. Justice Hawkins said:

"Nothing to our minds can be clearer than the object of the Act was beyond all other considerations to provide for the safety of the public, and to guard, as far as possible, all members of the community from the disastrous consequences so frequently arising from the sale of poisons by persons unacquainted with their baneful properties; and the whole object of the Act would be frittered away and the Act itself become a dead letter were we to declare by our judgment that an unqualified assistant can lawfully and with impunity sell any of the poisons to which the Act applies unless upon each occasion of such sale he acts under the personal supervision of a qualified employer, or a qualified assistant to such employer." Then the Judge goes on to state what he means.

His Honour: There is this to be said—that that all seems to compensate that the assistant would have to dispense and perhaps compound the poisonous article, whereas you have got

some provisions under the latter Act where it is to be sold just as it came from the manufacturer. However, this is a decision binding on me that under the earlier Act the person

who actually sells must be qualified.

Mr. Glyn-Jones: The person who actually sells must be qualified. Now, your Honour, we come to the 1908 Act, and the facts, put quite shortly, are these: That in certain districts in the country it was found that there was some difficulty in in the country it was found that there was some difficulty in obtaining certain poisons that might be necessary in agriculture and horticulture particularly in outlying districts in Scotland and Wales, and representations were made that the provisions of Section 15 require that the keeper of the open shop where poisons are sold, and the seller of the poisons, should be qualified were irksome, and caused some difficulty to the public obtaining them in such district where there were to the public obtaining them in such district where there was no chemist or where facilities were not forthcoming for obtaining these poisons. And my point is this—that the whole object of Section 2 of the 1908 Act is not contrary to the spirit of the 1868 Act, which was to place all reasonable restrictions upon the sale of these things, but was to enable, in cases of difficulty, and dealing with special articles, just these particular agricultural and horticultural substances, that an authority, having taken certain circumstances into consideration, was provided by waster of a ligarance shield set in the substances. sideration, may provide by means of a licence a shield, as it were, from the provisions of Section 15. My friend admits that were it not for this provision there might be no answer. He has said that it would be unreasonable to expect that the seller of a packed poison should be a registered and a qualified chemist, and he says it is ridiculous to suggest that the mere handing down of a poison of this sort requires certain qualifications. The answer to all that is this: That as the law stands, at any rate apart from this horticultural business, it is the law that no one can take off a shelf and hand to the public a poison, whether it is packed or not, unless he is a registered chemist. I need not go at any length into the reasons for that, but it is obvious you have an article here with sufficient poison in it to kill 160 people, that someone with judgment and some capability should stand between the public and the purchaser of such an article as this.

His Honour: Supposing this was bought at a chemist's. would the assistant who handed it down from the shelf to the

customer have to be qualified?

Mr. Glyn-Jones: Yes, he would. That is my point. friend said applies to a chemist's shop. A chemist needs no licence to sell this article because he is qualified, but his assistant, if he is unqualified, dare not sell it under the judgment in the Wheeldon case. That was the case of the packed ment in the wheeldon case. That was the case of the packed poison. There is really some good reason for it. In support of that argument I will direct your Honour's attention to Section 17 of the 1868 Act and to the Arsenic Act. Section 17 is the section which lays down the regulations which are to be complied with on a sale. It means this: first of all, in the case of a poison coming within Part 1 of the Schedule, the case of a poison coming within Fart 1 of the schedule, the article cannot be sold to a stranger. Certain entries have to be made in a book, and a real statutory requirement has to be carried out, which requires that the person who has to deal with it should have some skill and some knowledge. The chemist is trained. It is his business to protect the public from the use of these dangerous things, and, where necessary to give the necessary warning. In the regulations to which my friend has already referred your Honour—I think it is the first regulation—one of the things which the authority in granting licenees has to consider is the fitness of the person who applies for the licence

Mr. Lane: I said with the proposed licensed holder.

Mr. Glyn-Jones: I prefer using the words of the regulations. They use the word "person." There they say: "A licence shall not be granted to any person unless the local authority are satisfied that he is fit to be entrusted with the sale of a poisonous substance.

His Honour: They have done that. They have already

given their licence to Hobbies.

Mr. Glyn-Jones: Yes: but if I am right in my contention that if a person-not a pharmaceutical ehemist, but everyonewho sells a poison must be qualified, no matter whether a master or an assistant, the only protection is that he must the licensed himself. That is the person who has to carry out these duties, whose personal fitness, I submit, the authority should take into consideration. This protection is not a kind of invitation or an authorisation to the person named in the licence and his friend to keep open shop and sell poison, or to a company and all its shareholders, or to a company and all its assistants. It is a personal licence enabling him to do certain personal acts without bringing himself within the penalties of Section 15.

His Honour: How do the company sign the application—

"I hereby apply

Mr. Glyn-Jones: I am coming to that. His Honour: Are you going to attack all licences to limited eompanies?

Mr. Glyn-Jones: What I say about a licence to a limited-liability company which can neither do the acts necessary

for keeping open shop nor for selling poison, is either ultra vires or useless. There is not the least difficulty about it. All the company have to do is—

Mr. Lane: We have got no question in this case as to whether this licence is or is not properly granted to the

His Honour: I wanted to see how far the argument goes.

Mr. Lane: My friend is not attacking the licence. Mr. Glyn-Jones: My point is that the only shield the defendant could bring was his own personal licence, and certainly the licence he produces—which, on the face of it, purports to be a licence issued to a limited-liability company which can neither do any of the acts of keeping open shop-cannot help

him.

His Honour: He can keep open shop fast enough.

Mr. Glyn Jones: He can; but there is a dictum in one of the House of Lords cases where it points out the words "keeping open shop" mean all the acts necessary for keeping open shop. I want to deal with a question of apparent diffi-culty, which my friend puts before your Honour, of a limited company's liability. He says a limited company want to sell these agricultural and horticultural poisons, and how are they to do it? My answer to that is that they can do it just in the same way as a limited-liability company in the sale of liquor namely, by giving the name of some person keeping open shop and who is licensed.

His Honour: According to you, it would be necessary for

them to have a chemist on the premises.

Mr. Glyn-Jones: This exemption is an exemption for this Mr. Glyn-Jones: This exemption is an exemption for this particular poison and for these particular poisons only. If that is all they want to do, it is quite easy for them to apply for a licence for a manager or for some person in their employ to keep open shop and sell on their behalf. I see no difficulty, but the whole company question is dealt with in Section 3 of the Act. As your Honour remembers, the decision is one of the House of Lordy ages left companies as comin one of the House of Lords cases left companies as companies right outside the Act, and they could not be interfered with, and it was not until 1908 that provision was made for dealing with that difficulty. Counsel read Section 3 (4) of the 1908 Act, and was proceeding to comment on it when his Honour said: Will you look at Sub-section (b)?

Mr. Glyn-Jones: Each shop shall be personally conducted by a registered shomist.

by a registered chemist.

His Honour: Is he bound for the selling of poisons?

Mr. Glyn-Jones: If he does not, any assistant who sells must be qualified.

His Honour: It does not say "qualified." It says "there must be a superintendent to manage.

Mr. Glyn-Jones: It does; but may I direct attention to Section 15, which makes it an offence for any person to sell, and under a decision in the Wheeldon case any individual who sold was liable, whether he was a servant of the company or whether he was an individual; so this question did not arise, and there was no need of amending that. But the law stands as it did, so that any person, whether he be servant or master, must be qualified to sell a poison. All that this section does is to provide for carrying on the business of keeping open shop for selling poison and enable the company to do that by appointing a superintendent. Sub-section (b) is a provision that if they want to take certain titles they must make the superintendent a member of the board.

His Honour: I see that section does say "the assistant."
Mr. Glyn-Jones: Yes, it does. The effect of the whole
thing is to say that Section 15 of the Pharmacy Aet, 1868, which the House of Lords said did not apply to companies, shall apply to companies, subject to this: that a company may qualify by having a qualified superintendent.

His Honour: Are there any extending words saying it shall apply to these companies? This inferentially says it shall extend to companies. Is there anything which says so de-

Mr. Glyn-Jones: Yes; they shall not do it—that is at the end of the section—"Subject as aforesaid, Section 12 of the Pharmacy Act, 1852, and Sections 1 and 15 of the Pharmacy Act, 1868, shall apply to a body corporate, and in Scotland to a firm or partnership, in like manner as they apply to an individual." So there is no difficulty in companies selling all poisons if they comply with the section. If they do not, they would be liable under Section 15, despite the House of Lords' judgment. As to the point my friend raises in regard to the company difficulty, there is one course open to them. The other course is to name some responsible person in their employ, and the authority, having that person's application before them, would be satisfied that he is a fit and proper person to entrust with the sale of these poisons and the carrying out of these regulations.

Counsel next dealt with the wording of Section 2; then, replying to points in Mr. Lanc's speech, mentioned that Hobbies. Ltd., could not sell photographic poisons, although they sell photographic goods. Where you have, he added, a registered chemist who has been apprenticed and has been trained and passed his examinations, and who is skilled in the storing of all these dangerous articles, and when the Legislature makes provision for unqualified men to handle these things, they say: We must lay down regulations for you as to the particular way in which you are to store these particular articles.

His Honour: Practically the argument is this: that they have not enough for a chemist to do to be there all the time, because part of his time he may be selling wheelbarrows or something of the sort, or certain other matters connected with

other hobbies

Mr. Glyn-Jones: I quite agree; and it is to meet that state of things that these special regulations in regard to these particular poisons have been provided. What I say is this: The duty of the company, or rather the duty of the person who acts for the company, is to see that he himself is licensed to My friend's argument goes to this: that while that bottle cannot be handed down in any chemist's shop by an unqualified person, that if the chemist got a licence, according to my friend's argument, he could employ his errand-boy or anybody else to hand this packed poison over the counter because he is licensed—in other words, whereas his qualification would not be good enough for his assistant, his licence would be Suppose Hobbies, Ltd., instead of availing themselves of this licence, were to appoint a superintendent, this article could not be sold across the counter except at the hands of that superintendent, or at the hands of someone else who is registered as a chemist.

Counsel proceeded to show the safeguards laid down in the regulations in order to ensure that the person licensed is suitable, concluding: My friend's position would be that a limited company, having got a licence, could keep open shop, but they could do nothing because no sales could take place in

the shop inless somebody is qualified or somebody is licensed to sell. Put shortly, that is my case.

His Honour: You want two licences: first of all a licence for the people to keep the shop—that would be the limited company—and then you want a licence to the manager to sell.

Mr. Glyn-Jones: I am not sure that a licence to a person in

a responsible position to act for the company in keeping open shop is not enough. It is rather a difficult subject to go into, but what is meant by the phrase "keeping open shop" is somewhat difficult. It involves certain definite acts which the company cannot do. Mr. Justice Bramwell, in the House of Lords case, the London Provincial Supply Co., when the case was before the Court of Appeal, directed his Honour's attention to that, and he said, in his opinion, the directors were the people who kept open shop.

His Honour: Did he draw a distinction between the direc-

tors and the company?

Mr. Glyn-Jones: Yes, he did, your Honour. [Counsel gave the reference—"Glyn-Jones," p. 329.] It may be (he continued) that a licence is of use to a company qua company to keep open shop, but it cannot possibly be of use to the company to sell, because the company cannot, and the person who has to sell must, obtain a licence. They need not licence fifty assistants; it is quite enough if one is licensed, and that one assistant will attend to these particular sales, and the authority who is granting the licence will see that he is a fit person, that he is not an errand-boy, or a person who may quite unfit to deal with these potent poisons.

His Honour: Is this the first time this question has arisen? Mr. Glyn-Jones: No. your Honour. On Friday last his Honour Judge Harington gave judgment at Kingston in a case where exactly the same point arose, with this exception, that the licence in that case was not held by a limited company; it was held by the father of the defendant, who traded

pany; it was held by the father of the defendant, who traded under the firm-name, but he was the sole owner of the business. His Honour: What was the judgment?

Mr. Glyn-Jones: The judgment, your Honour, was in my favour; but it is only fair to say that the matter was of sufficient importance to the people who are interested that they asked him to grant leave to appeal, and he has done so. So the point is certain to go to appeal. This case differs, to a certain extent. If it is decided that the licence to Nash. the father, does not cover the sale by the assistant, there is this additional point here—that the licence in this case is to a limited-liability company.

Mr. Lane: I ask you to deal with this case on the facts

that come before you.

His Honour: This is a case of so much importance that I had better give judgment another day. Will you take away this bottle of poison which has been handed up to me? It says on it that if the top is taken off there might be fatal consequences.

The judgment will be delivered on Tuesday, June 28.

Sale of Food and Drugs Acts. Tartaric Acid for Citric Acid.

At Sunderland on June 17, Wm. Harrison, Hendon Road, Sunderland, was summoned for selling tartaric acid

for citric acid. Mr. J. C. Morton, who appeared for the defendant, admitted the facts, but produced an authority stating that for medicinal purposes tartaric acid and citric acid were practically the same. Moreover, the price charged (3d.) was for tartaric acid, 2 oz. of citric acid costing 6d. According to the analysis, the tartaric acid was absolutely pure. A fine of 20s., and costs, was im-

Dentists Act.

A DEAD DENTIST'S TITLE.

At the West London Police Court, before Mr. Fordham, on June 17, W. T. Barrett, The Grove, Hammersmith, was summoned for unlawfully using the description "George Norman, dentist," contrary to Section 3 of the Act. Mr. A. H. Bodkin, instructed by the solicitor to the General Mcdical Council, supported the summons; Mr. Arthur Powell, K.C., and Mr. Graham Mould defended. Mr. Bodkin stated that the defendant, after acting as assistant to a dentist who, under the real or assumed name of George Norman, had carried on the practice of dentistry for some time at 25 The Grove, Hammersmith, stepped into his employer's shoes on the death of that gentleman, and still, though not himself a qualified dentist, practised as "George Norman, dentist." There was some doubt whether a George Norman had ever existed (went on counsel), because inquiries showed that down to the end of 1892 the rated occupier of the premises was George Henry Shepherd; but, in any event, it was clear that the defendant had no title to the name and description of "Norman, dentist." Evidence for the prosecution having been given by Mr. A. B. Watson, solicitor to the Hammersmith Borough Council, Mr. Mould, for the defendant, admitted that an offence had been committed. The facts of the case were extremely simple. In 1876 a dentist named Shepherd went to 25 The Grove, where previously a dentist named Norman had practised, and set up in practice, using, for some reason or other, the name of Norman. In 1883 the defendant Barrett went as assistant to Shepherd, and when in 1893 Shepherd died he arranged with Miss Shepherd to buy her father's practice and to pay her 20s. a week. That had been regularly paid, and the only offence he had committed was that he continued to use the name of Norman .-The Magistrate imposed a fine of 15l., with seven guineas costs.

[We reported on June 4 that the General Medical Council, having made inquiries, removed the name of George Norman from the Dentists' Register. See p. 855.—Editor C. & D.]

Merchandise Marks Act, 1887. "YORKSHIRE RELISH."

At the Sheffield Police Court, before Messrs. B. Gleadhill (Chairman) and H. B. Sandford, on June 16, Harold Brumby and Herbert Brumby, stated to be trading as Squire & Son, Martin Works, Martin Street, Sheffield, were summoned at the instance of Messrs. Goodall, Backhouse & Co., Leeds, proprietors of "Yorkshire Relish, for falsely applying to bottles of sauce the trade-mark "Yorkshire Relish," the sole property of the prosecutors; and also for having in their possession bottles of sauce so labelled; and for selling them.

Mr. E. W. Clegg, on behalf of the prosecution, explained that Messrs. Goodall, Backhouse & Co. had ob-Relish." It came to their knowledge that the defendants were selling "Yorkshire Relish," and on May 30 an order was sent to the defendants for three dozen small bottles. The order was executed, and each bottle bore a label containing the words "Yorkshire Relish." The relish was examined by the prosecutors and found to contain a most horrible concoction; and the fact that the defendants were able to sell the relish wholesale at three bottles a penny showed what kind of "choice Oriental spices and fruits" it was made of.

Mr. William C. Bowman, a member of the prosecuting firm, gave evidence in support of counsel's statement, and in the course of it stated that his firm had spent 30,000l. in litigation with regard to their trade-mark.

Edith Pennington, who ordered the three dozen bottles

of relish, also gave evidence,

Harold Brumby denied being concerned in the business, and his brother Herbert, on oath, said he was the only person trading as Squire & Son. He had done business with Mrs. Pennington. He had been in the habit of labelling the relish "Squire's Relish," but Mrs. Pennington objected, and said she wanted "Yorkshireman's Relish." The sending of the three dozen bottles labelled "Yorkshire Relish" was a mistake. In reply to Mr. Clegg, defendant said he purchased the labels from a man mamed Waterhouse. He did not know a man of that name had been prosecuted. It was the custom to label the bottles "Yorkshireman's Relish." and the labels containing the words "Yorkshire Relish." must have been stray ones.

The Chairman described the offence as a very serious one, and said the defendant, Herbert Brumby, would be fined 10*l*., and 5*l*. costs, with the alternative of two months' imprisonment. The summones against Harold Brumby were dismissed. The goods and labels bearing the words "Yorkshire Relish" on defendant's premises were ordered to be forfeited. The fine not having been paid, the defendant has taken the alternative.

Bankruptcy Report.

Re William Edward Wakelen, 3 Brearton Street, Bradford, Medicine-vendor.—The statement shows gross liabilities 2331. 11s., of which 2061. is expected to rank for dividend. The assets are estimated to produce 351., and, after deducting creditors for preferential claims amounting to 17l. 11s., there is a deficiency of 1881. 11s. The causes of failure given by the debtor are "speculation in shares, partnership in stock and share business, and damages awarded against him in divorce proceedings." The debtor is thirty-eight years of age, and commenced business in 1892 as a medicine-vendor at Full Street, Derby, with a capital of 5l. Since then he had carried on a similar business successively at Nottingham. Hanley, Stoke-on-Trent, Leeds, Norwich, Newcastle, and Bradford. He had been fairly successful in most of these places, especially at Leeds, where for a period of six years he made a profit of 7l. or 8l. per week. At the end of 1905 he had a balance in his favour of 1,000l. At that date he entered into partnership with a W. H. Keet as stockbrokers and metal-brokers at Greek Street, Leeds, trading as W. H. Keet & Co. Both partners introduced 1,000l. into the business, which proved a failure, and that he lost the whole of his capital therein. The partnership only lasted two years, but the dissolution was not gazetted, and the debtor states that he might be liable for some outstanding liabilities in connection with the firm. He also speculated in differences, losing 500l. At the end of 1908 debtor's capital was 190l. Since that time he appears to have done little business, and his capital has gone in household and personal expenses, removals, etc. The debtor's late wife commenced divorce proceedings against him in June 1909, and obtained a decree nisi. which has since been made absolute. He was also ordered to pay her eosts, which amounted to 72l. 3s. 9d.

Gazette.

Partnerships Dissolved.

BAKER, J. W., and BAKER, W., Bristol, wholesale druggists, etc., under the style of J. W. Baker & Co.

Bотнам, J., and Bотнам, W., Higher Broughton, Manchester, pharmaceutical chemists, under the style of J. Botham & Son.

COHEN, I., and FLETCHER, E. E., Craven Park Road, Harlesden, London, N.W., St. George's Square, London, S.W., and Northfield Lanc, West Ealing, London, W., dental surgeons, under the style of Cohen & Fletcher.

New Companies Registered.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

ALLEN & LLOYD, LTD. (P.C.).—Capital 3,500l., in 1l. shares. Objects: To take over the business formerly carried on as "Allen & Lloyd," to carry on the business of dealers in drugs, medicines, mineral waters, soap, toilet requisites. etc., and to adopt an agreement with H. L. Allen and W. H. Okill, who are the first directors.

Wylle's Cleansers, Ltd. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturers of and dealers in chemical and other preparations, detergents, cleaners, sterilisers, serums, ferments, disinfectants, fertilisers, etc. The first directors are E. J. Boake, F. M. Roberts, and A. E. Berry.

STEELS, Ltd.—Capital 1,500*l.*, in 1*l.* shares (700 preference). Objects: To carry on the business of drug-store proprietors, etc., to acquire the business of Steel & Co., manufacturing chemists, wholesale druggists, and druggists' sundriesmen, carried on at Stretton Street, Union Road, Nottingham, by I. Steel and J. Murdock, who are the first and permanent directors of the new company.

CLEVON, LTD. (P.C.).—Capital 2,0007. Objects: To carry on the business of manufacturers of and dealers in adhesive materials, chemists, druggists, drysalters, etc., and to acquire from R. K. Franz the exclusive use and benefit in the United Kingdom of a secret process for the manufacture of adhesive materials known as "Klebon," used in the manufacture of pencils and other articles, etc. The first subscribers are E. M. Carrington, 2 Gresham Buildings, E.C., C.A.; F. O. Gask, clerk.

Eucrasy, Ltd. (P.C.).—Capital 3,0007. Objects: To carry on the business of chemists, druggists, chemical manufacturers and dealers, etc., to acquire the proprietary article known as "Eucrasy," or "Eucrasyne," and the right to manufacture and sell the same in Australia, U.S.A., and South Africa, and to adopt an agreement with C. N. Freshman, who and G. M. Light are the first directors.

Percy Macdonald, Ltd. (P.C.).—Capital 100/. Objects: To carry on the business of makers of artificial teeth, eyes and limbs, boots, corsets, bandages, chairs, stretchers, ambulanees, hospital appliances and the like, chemists, druggists, etc. P. Macdonald, Glencoe, Edge Lane, Stretford, Manchester, is the first managing director. The same particulars apply also to James Macdonald, The Patentee, Ltd., and to Grant & Sons, Ltd., both of which have also been registered.

Company News.

Texas Medicine Co., Ltd.—G. Evanovitch, 12 St. James' Square, Holland Park, W., ceased to act as receiver or manager on May 2.

THE J. D. RIEDEL Co., of Berlin, proposes to remove its works from their present site, and has decided to increase its capital by 45,000%.

CHEMICAL ENGINEERING, LTD.—To be voluntarily wound up. Liquidator, Mr. Henry Bacon, 62 London Wall, E.C. Meeting of ereditors at above address on June 30, at noon.

STEPHEN SMITH & Co., LTD.—The directors report that the past year has been the best in the history of the company as regards volume of business and net profits. They recommend a dividend of 10 per cent. on the ordinary shares, and place 6,000% to reserve.

LORIMER & Co., Ltd.—Mr. J. Lorimer has issued to the shareholders of this company a printed eircular in which he comments upon the statement of affairs issued by the Senior Assistant Official Receiver, and adds particulars from his own point of view of certain events in the history of the business.

COMPANIES' REGISTER.—The undermentioned companies will be struck off the register at Somerset House, unless cause be shown to the contrary, at the expiration of three months from June 21: Bairds Australian Medicated Soap Co., Ltd.; Capsuloid Proprietaries, Ltd.; Foreign Chemical and Electrolytic Syndicate, Ltd.; Ozone Purification Co., Ltd.; Western Drug Stores, Ltd.; Winther's Nutritive Saline, Ltd.

Mortgages and Charges.

Under the Companies (Consolidation) Act, 1908, Sec. 93, the mortgages or charges therein specified are (except in Scotland) void against the liquidator and any creditor of the company unless filed with the Registrar in accordance with the conditions laid down in the Act. The following have so been filed and, except where otherwise stated, are charged on the company's undertaking and property, present and future, including uncalled capital.

H. G. Sanders & Son, Ltd.—Memoranda of satisfaction in full of mortgage dated June 25, 1905, for 1,300?.. and of debenture and mortgage dated June 15, 1905, securing 2,000?.

Grimshaw Bros. & Co., Ltd.—A memorandum of satisfaction to the extent of 500% of debentures dated August 1, 1901, securing 2,90%, has been filed.

Business Changes.

Notes for this section must not be in the nature of advertisements, and they should be authenticated when sent to the Editor.

MESSRS. HERN & Co.'s establishment at Catford Hill, London, S.E., is closed.

MR.-J. C. HILL has purchased the business of Mr. A. J. Spyer, chemist, Watlington, Oxon.

Mr. J. S. Hewitt, chemist and druggist, 175 High Street, Rochester, has retired from business.

Mr. R. M. Holmes, chemist and druggist, has purchased Mr. Keen's business in High Street, Margate.

Mr. Dingell has opened the business lately carried on by Mr. Jeffries at Loampit Vale, Lewisham, S.E.

Mr. E. S. Smith, Station Pharmacy, 2 Gloucester Terrace, Southfields, Wimbledon, has sold his business to Mr. H. Wardle.

Mr. A. B. Calvert, chemist and druggist, Princes Avenue, Hull, has sold his business to Mr. J. W. Podmore, chemist and druggist.

Mr. W. Miles Jones, chemist, has removed from temporary premises at 38 Terrace Road, Aberystwyth, to his newly erected pharmacy at 35 Terrace Road.

BOOTS CASH CHEMISTS, LTD., have taken the shop at the south-west corner of Holloway Road and Highbury Station Yard, and are fitting it up as a branch of their business.

Messrs. John Palmer Junior & Co., general exporters, have removed from Ceylon House, 49 and 51 Eastcheap, to Finsbury Court, Finsbury Pavement, London, E.C.

Mr. H. E. Noble, chemist and druggist, has transferred bis business from Midgate Buildings. New Road, Peterhorough, to more central premises on Long Causeway. [Corrected note.]

Boots, Ltd., have opened a branch business in High creet, Brentford, W. The company have also just pur-Street, Brentford, W. chased the lease of a shop in High Street, Ashford, Kent, which will be fitted up shortly.

Messrs. Joseph Gibbs & Sons, Ltd., Terminus Road. Eastbourne (Mr. H. Armstrong Brown, chemist, managing director), have improved their business premises by having an entirely new and modern shopfront fitted.

Messrs. James Jackson & Co., varnish manufacturers, gum and shellac merchants, have removed from 213 Union Street, Borough, S.E., to their new factory, the Major Works, Major Road, Jamaica Road, Bermondsey, London,

Mr. W. H. Bellamy, 448 Cleethorpes Road, Grimsby, has purchased from the trustees the business of Mr. J. C. Begg, chemist, 121 Monks Road, Lincoln, and will carry it on in the name of J. C. Begg & Co., with Mr. Begg as managing partner.

Mr. A. E. Beilby, pharmacist, has disposed of his Derby Road branch—which has been under the care of his son, Mr. Cyril Beilby, chemist and druggist-to Mr. J. T. Robson, chemist, late of 2 Market Place, Yardley Road, Acocks Green, Birmingham.

Messrs. John McGuffie & Co., chemists, 18 Castle Street, Liverpool, have secured the lease of the premises at No. 10 in the same thoroughfare hitherto occupied by a tobacconist. When the present tenants have removed the new holders of the lease will open their establishment there.

Deed of Arrangement.

Atkins, William, South View, Forest Hall, and 126 Raby Trustee, J. J. Gillespie. 40 Westgate Road, Newcastle-on-Tyne, Chemist and Druggist.—Trustee, J. J. Gillespie. 40 Westgate Road, Newcastle-on-Tyne, C.A. Dated June 13; filed June 20. Secured creditors, 8141.; habilities, 4281.; estimated net assets, 3597. Among the creditors are Hall, Foster & Co., Ltd., Newcastle (137.); J. Ismay & Son (127.); Wilkinson & Simpson, Ltd. (1897); Virol Ltd. (117.) Virol, Ltd. (117.).



Postal Address:

C & D. INFORMATION DEPARTMENT 42 Cannon Street, London, E.C. Telegraphic Address: "CHEMICUS LONDON." Telephone No.: BANK 852 (two lines).

The object of this Department is to supply names and addresses of Manufacturers of, or Agents for, goods pertaining to the Chemical, Drug and Allied Trades. The "Buyers' Guide" in each issue of "The Chemist and Druggist" affords much information, but in quiries for anything not referred to therein may be addressed to this Department. Replies will be furnished immediately, or inserted in this receipt free of shares. in this section free of charge.

INFORMATION WANTED.

We would be obliged if any reader would reply by postcard or telephone to one or other of the subjoined inquiries.

201/63. "Karola" soap: who makes or supplies?

203/69. Makers of Oehler's patent parquet wax. 205/10. "Syrup Mer-Vital": makers or agents in London.

"Sulsan tablets"; who makes or where can supplies be 204/73. obtained?

191/62. What is "Cremoderma," and where can it be obtained in

191/62. What is "Cremoderma, and where can it be obtained in this country?
205/30. "Delacroix's lime-juice and glycerine": who are the pro-prietors or wholesale suppliers?
203/13. Address of the "Rica Company" (believed to be a Con tinental firm), manufacturers of surgical dressings, etc.
201/66. "Cauldwell's Veterinary Preparations" and "Smith-field's Powder for Horses": who makes or where obtainable?

INFORMATION SUPPLIED.

During the past week we have answered inquiries regarding the following articles. The information will be repeated to any other inquirers who send to the Department a stamped and addressed envelope for the purpose.

" Bobby " flycatcher, makers (200/66). Bracher's mixers and sifters,

makers (188/16). Cream of Lilies," " Cream makers

"Cream of (202/65). Cuff's fly oil, proprietors (202/9) (cuff's fly oil, proprietors (202/9))

Cuff's fly oil, proprietors (202'9)
"Easy-poise" invalid furniture,
makers (199/48).
Grimault's syrup, maker and
agents (204/72).
Hand pill and tablet ceating
machinery, makers (202/4).
"Havanita" soap, makers
(204/71)

(204/71).

Machines for bottling tablets, makers (202/51).

Machines for making ophthalmie

tablets, makers (201/29). Mechanical figures for window-

display, makers (202/38).
Microscopes, makers and whole-sale supply (202/62).
"Nastin." makers and agents

makers and agents (199/42).

earlene (sugar makers (203/72). Pergenol, makers (204/71)

Pharma. Soc. arms, electro, makers (203/24). "Pruncids," makers and agents

Sulphur eandles, makers (198/45). Sulphur (rock), first-hand

supply (199/49). "Thatzit" grease - remover.

makers (203/68). Therox.' makers and London suppliers (201/48).

suppliers (201/48).
Tokay medicinal wine, agents (200/7).
"Veedee' vibrators, makers and agents (200/64).
Wellington torehes for painters' use, makers (201/74).
Wilkinson (printers), London agent (199/65).
Winsor & Newton's address

Winsor & (201/74).

Revolving stands for post-cards, supply (80/15).

A MEETING OF MILITARY PHARMACISTS was held at Tennogi, Osaka, on April 13, when Lieutenant-Pharmacist Wada lectured on the German Apotheke, and Major-Pharmacist I-i-Jima on recently improved military surgical appliances and materials. Major-Pharmacist Nasaki also lectured.

Scott's Emulsion has been engaging the attention of the Federal Council of the Swiss Confederation. An enactment passed by the canton of Bâlc Town forbids the sale of certain foodstuffs and specialities except in pharmacies. The druggists of Bâle protested against this measure, which included the sale of Scott's Emulsion, and appealed to the Federal Council, with the result that the matter is now before the Federal Parliament. The Swiss Board of Health has issued a statement, from which it appears that it regards Scott's Emulsion as a remedy. Further, it maintains that the sale of the emulsion should be confined to pharmacists.

Observations and Reflections.

By Xrayser II.

Professor Schmiedeberg

is admittedly one of the principal authorities on pharmacology, and any opinion that he gives expression to is sure to receive close attention; but his suggestion that all the digitalis collected should be consigned to a central store, in order that it may be standardised and then distributed far and wide, strikes me as perfectly Utopian. Even if this scheme were practical, it would not help matters much, when there is no guarantee that the fluid preparations made from the immaculate leaves will remain active for any given period; for that is what we are now being taught by advanced pharmacologists. Apart, therefore, from the hopeless impracticability of the scheme, its adoption, were it feasible, would entirely fail to solve the problem.

The Term "Dental Surgeon"

may not be used by an unqualified practitioner, but he can call his rooms a "dental surgery." He may not label himself a "dentist," but he can safely say that he practises "dentistry," while he can hold "dental consultations" and give "dental treatment." It is all very confusing, but as it is law I suppose it is quite all right. In the same way, an unqualified man may not call himself a "pharmacist," but he can say his shop is a "pharmacy." Nor can he put up the sign "chemist," but if he takes his sisters and his cousins and his aunts into partnership he can call the lot of them "chemists." When are medical men, dentists, and pharmacists to join hands and promote a measure to remedy their grievances? If not soon, then it will be never, for vested interests will rapidly accumulate and prevent any change.

What is a Wineglassful?

We used to be taught to regard it as an ounce and a-half, but it appears to be generally understood now as two ounces. There is a note in Pereira's "Selecta" to the effect that cynthus equals four ligulæ, or one-twelfth of an English wine-pint. A ligula was the forty-eighth part of the sextarius, which Pereira evidently takes as equivalent to our pint-i.e., as containing 9,600 minims. This would give us a cyathus of 800 minims, or $1\frac{2}{3}$ fl. oz.; but according to a table in Smith's "Dict. Gr. and R. Ant." the cyathus was only 0.96 of the sextarius, which reduces it to $1\frac{3}{5}$ fl. oz., or an ounce and a-half, plus 48 minims. There is a note on this subject in an English manuscript of the fifteenth century in the British Museum (Sloane MS. 347, f. 98b) which is worth quoting, although I cannot make it tally with the above: "Cyathus is a measure conteyning in waight of wyne one vnce, three drammes, and foure siliquas. Siliqua is the thyrde parte of Obolus. Obolus is halfe a scruple." The weights here given are in accordance with the table in Smith, but, reckoning on the basis of the Roman uncia of 420.8 grains, they give us a cyathus of less than 590 grains, which is much too small. The matter is made still more obscure by what follows, for the note concludes with the statement that the sextarius contains two pounds and a-half. A twelfth of this would make a cyathus enormously too large. The Oxford English Dictionary under "Cyathus" has, "= about $\frac{1}{12}$ of a pint," with these among other quotations: "The weyght Ciatus conteyneth 7. dragmes" (dated 1495); and "The cyathus was of as uncertain dimensions as our modern wineglass, which is

the medical Cyathus, and a fair equivalent" (Badham, 1854). The writer last quoted does not seem to know the difference between cyathus a domestic utensil, and cyathus a standard measure. Upon the whole we may conclude that the latter was nearer 1½ öz. than 2 oz.

Life in the Quicksilver Mines

of Almaden, as described in Mrs. Villiers-Wardell's recently published "Spain of the Spaniards," is anything but a desirable lot, and it is not surprising to be told that her visit to the place proved to be of "a depressing nature." These mines, which have been worked for about 2,500 years, are still an important factor in the revenues of the Spanish Crown, although it has for the past sixty or seventy years been obliged to raise large loans upon them, and thus to lose control of the greater portion of their wealth. In 1870, says Mrs. Villiers-Wardell, a loan of 1,696,761l. sterling, at 8 per cent., was obtained from the house of Rothschild, the mine being mortgaged for thirty years. The amount paid back in capital and interest amounted to 4,500,000/. In spite of protests from the Cortes this contract was in 1900 renewed for ten years, and it should now therefore be near its expiration. Will this have any effect on the price of the article? Probably not, as Mrs. Villiers-Wardell is mistaken in supposing that these mines are now the chief source of the metal. About 3,600 flasks are obtained there yearly (she says), the value of each flask being about 250 pesetas, but, of course, both the amount obtained and the price vary. At Almaden the cinnabar from which the mercury is chiefly obtained is found embedded in slate and quartz, and has to be got out by boring. The miners are paid by results, the average amount earned daily being not more than one and a-half pesetas (about fifteen pence). If, as is said, most men are, after fifteen years in the mines, reduced to "physical wrecks," "hopelessly diseased," it is not wonderful that a difficulty should be found in getting labourers. The work of the stokers in the furnaces is the worst, and one can imagine that the atmosphere there must be worthy of Pandemonium. When no longer able to work miners are discharged on a pension of 75 centimes a day. These statements are, of course, all taken from Mrs. Villiers-Wardell. She does not explain how mines yielding only 36,000l. worth of mercury yearly supply interest at the rate of 8 per cent. upon 1,696,761l.; can there be by-products sufficient to make up the enormous deficiency, or are her figures wrong?

On Perfumes in Plants

Bacon, who is always curious and often instructive when dealing with such matters, gives one the impression that under happier auspices he might have anti-cipated the experiments of M. Charabot. In the essay "Of Gardens," in which he poetically likens the coming and going of flower-scents in the air to the warbling of music, he distinguishes between the flowers whose smell is given out spontaneously and those which only yield it upon being crushed. Roses, he says, both damask and red, are "fast flowers of their scents," and yield little outwardly even in a morning's dew; bays, also, give no smell as they grow, and rosemary and marjoram not much. The flower which yields the sweetest smell in the air is the violet, especially the white double one; and after that the musk-rose. Then come sweet-briar, wallflowers, pinks, and gillyflowers; then the flower of the lime, and honey-suckles, "so they be somewhat far off." Of bean flowers he says nothing, because they are field flowers. Those which perfume the air most delightfully, "not passed by as the rest, but being trodden upon and crushed," are burnet, wild thyme, and water-mint. In the "Sylva Sylvarum" he speaks more particularly of the reasons why plants thus give out odours, and why those which have their scent in the flower have scentless leaves, and vice versa. He notes that roses, when first dried, have little or no smell, but regain it afterwards. All odours, he says, are sweeter in the air, at some distance from the nose, because of the "finer incorporation of the smell," and also because the "spiritual" essences carry further than the "earthy" admixture. These early puttings forth of the scientific spirit are interesting, and a little pathetic.

"SANITAS POWDER" SLUGS.

"SANITAS POWDER" rids Garden Beds of Slugs, and is being well advertised for that purpose.

Mr. W. P. Wright in "The Garden, Week by Week" says, "The hint I was going to offer about slugs was to scatter 'Sanitas Powder' on the soil amongst the plants. Slugs simply loathe it."

Special Show Cards will be sent on receipt of Post Card.

The "SANITAS COMPANY" Ltd. Locksley Street, Limehouse, LONDON, E.



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For special terms apply to THE CHARLES H. PHILLIPS CHEMICAL CO., 14 Henrielta Street, Covent Garden, W.C.

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METHYLATED SPIRIT
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S.V.R.

Jas. Burrough Ltd.

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Editorial Articles.

Spirit-licences.

In our issue of June 18 we dealt with "off" wine licences as they have been changed by the Finance (1909-10) Act. We now treat similarly the various licences under which spirits can be sold for consumption "off" the premises. Apart from the changes in the rates of duty, the Act has made substantial alterations in the law regarding "off" licences to sell spirits. These licences may be considered under the three heads of licences: (1) To manufacture, (2) to sell wholesale, (3) to sell by retail. Under the first head the only licences which directly concern our readers are those granted to compounders. Licences as compounders are held by manufacturing chemists to enable them to recover drawback paid on tinctures exported. It is true that they also produce and sell in the home market spirituous preparations, such as medicinal spirits, tinctures, culinary flavouring essences, hair-washes, brilliantines, and perfumed spirits; but the sale of these has been regarded as not requiring a licence rather than as being covered by the compounder's licence. There is not, so far as we know, any intention of modifying the official attitude towards the sale of these articles; and it may be

taken for granted that, so long as the article produced and dealt in is incapable of use as a beverage, no attempt will be made on the part of the authorities to bring it within the definition of "spirits," for the sale of which a licence would be required. Manufacturing chemists, therefore, who hold compounders' licences in the circumstances pointed out will be concerned only with the increased rates of duty imposed on the licences. The duty on a compounder's licence has been raised from ten to fifteen guineas. The licence, which formerly expired on July 5 in each year, is in future to expire on September 30 annually. For the current year an adjustment of duties is to be made in this way: the licence now in force will expire on June 30, and a new licence will then require to be taken out. This will cost 7l. 15s., and will expire on September 30 next, after which the new scale of dutics comes into operation normally.

Wholesale Dealers.

The Act allows a licensed manufacturer to sell by wholesale for delivery direct from his licensed premises intoxicating liquor manufactured by himself. Any other person selling spirits by wholesale must take out a licence, for which fifteen guineas instead of ten is to be charged. But where a person holding a wholesale dealer's spirit-licence takes out a retail licence also at the increased rate given below, such dealer may obtain a rebate on the wholesale licence to the extent of 50 per cent., but so that the total licence-duty payable for the wholesale and the retail licences shall not together be less than fifteen guineas. This would mean in effect that a person holding both licences would pay 7l. 17s. 6d. annually for his dealer's licence. The new wholesale spirit licence will expire on June 30 instead of July 5, and the adjustment for the current licences will be made in this way :

The licence now in force expiring on the 30th of this month, The fleence now in force expiring on the 30th of this month, the Revenue authorities will call for payment of two years' licence-duty, subject to the licence-duty already paid. In respect of last year, the new rate will apply as from October 1, 1909, to June 30, 1910, the proportion of the duty for this period being 11. 15s. 7d., and the proportion at the old rate from July 6, 1909, to September 30, 1909, being 2l. 10s.; the gross sum payable for the year ending June 30, 1910, will be 14l. 5s. 7d. Allowing credit for the duty, 10l. 10s., already paid, there will be due in respect of the expiring licensing paid, there will be due in respect of the expiring licensing year 3l. 15s. 7d., which, added to the duty at the new rate. 151. 15s., for the licence taken out for the eoming year, gives a net total of 191. 10s. 7d., which will be payable by a dealer renewing his licence, which expires on June 30, 1910. This, however, is subject to what we have just said as to the rebate allowed to a dealer who also holds a retailer's licence.

A change in the substantive law made by the Finance (1909-10) Act deserves notice. Formerly a spirit dealer could not sell less than two gallons of spirits of the same denomination to the same person. The new Act gives an unequivocal right to a spirit dealer to sell spirits in any quantity, not less than two gallons or one dozen reputed quart bottles.

Retailers of Spirits "off."

It is in the case of the retailer's licence that the Act makes the most substantial changes in the law. The new licence is stated in the Act to correspond to the old spirit dealer's additional retail licence to sell by retail spirits in bottle and liqueurs in England and liqueurs in Scotland or Ireland. But the old licences were issued at the fixed rates of three guineas and two guineas respectively, while the rates of charges for the new licence vary from 10l. to 50l., according to the value of the premises. The old licences could not be taken out except by a person who had already taken out a dealer's licence in respect of the same premises; the new "off"

a dealer's licence should already be held. Many of our readers who, under the old law, had taken out the dealer's licence solely in order to be qualified to obtain the retail licence will doubtless be glad to avail themselves of the change in the law to discontinuc taking out the wholesale licence. Holding only the retail licence, they would, of course, be restricted to selling in quantities not exceeding two bulk gallons or one dozen reputed quart bottles; nor would they be entitled, without the dealer's licence, to sell spirits in any quantity to a licensed rectifier or compounder, a spirit dealer, or a spirit retailer. As regards the necessity for obtaining a justice's certificate. the Act expressly provides that where a justice's licence would not have been required for the grant of the retail licence under the old law, no justice's licence shall be required for the grant of the new spirit retail licence. In respect to the quantity which may be sold, also, the Act makes no change in the law. Thus, in England a person holding the new retail licence may not sell any quantity less than a reputed quart bottle; while in Scotland and Ireland there is no restriction as to the minimum quantity which may be sold. But the holder of a spirit retailer's "off" licence in any part of the United Kingdom is not allowed to sell spirits in open vessels. The rates fixed for the new licences are as follows:

					Duty.
Annual value	e of licen	ised pre	emises—		£ s. d.
Not exceed	ling £10				 10 0 0
Exceeding	£10 bu	t not ex	ceeding	£20	 11 10 0
,,	£20	,,	,,	£30	 14 0 0
,,	£30	,,	21	£50	 15 0 0
11	£50	, ,	9.7	£75	 16 0 0
,,	£75	,,	,,	£100	 17 10 0
	£100	9.9	, ,	£250	 19 0 0
77	£250	7.9	* *	£500	 30 0 0
,,	£500				 50 0 0

The Annual Value

on which the licence-duty is to be assessed is the annual value as found under the law prior to the Act for the assessment of licences to retail spirits for consumption on the premises. This value the Commissioners of Customs and Excise may find by any means they see fit, except that in Ireland the valuation known as Griffith's plus 20 per cent. must not be exceeded. In practice in England, where the rent paid is a rack rent, this is taken, unless in cases where the assessment for inhabited-house duty for income-tax schedule A, or the gross poor-rate is greater, when the highest of these assessments is adopted. In Scotland, the assessment recorded in the local Valuation Roll is that which usually forms the basis for licensing charges. The Finance (1909-10) Act defines "premises" in relation to annual value as including

"any offices, courts, yards, and gardens occupied together with the house in which the liquor is sold, except any such offices, courts, yards, and gardens as are proved to the satisfaction of the Commissioners to be used for any trade or business distinct from any trade or business earried on upon the premises of the licence holder.

Having regard to this definition, it may, we think, be taken as intended that where any licensed person occupies premises for any business purposes other than in connection with his licensed trade, he will, on satisfying the Commissioners of this fact, be able to have a separate assessment made for licensing purposes of that portion of his premises which is restricted to his licensed business. Though, before the consent of the Commissioners could be obtained to such an arrangement, it might be necessary to effect in any case such structural alterations in the premises as would make the separation of the two sets of businesses unmistakable. A trader, who had a separate assessment licence can be taken out without it being necessary that made of each portion of his premises for the purposes

of local rates would, in ordinary circumstances, have strong ground for claiming that the Commissioners should make a similar assessment for purposes of charging licence duty. It will be observed that the annual value alone determines the rate of duty for "off" spirit retailers' licences without reference to the population of the place, or to the extent of the business done in spirits. The new retailer's "off" licences commence in England and Ireland on October 1, and in Scotland on May 29 of each year, except where the licensee also holds a wholesale dealer's licence, when both licences expire together on June 30. Beginners may obtain licences at quarterly rates in the usual way, according to the period of the licensing year in which they begin business.

The Adjustments

which will require to be made on the expiration of current retailer's "off" licences on June 30, 1910, will depend upon the part of the United Kingdom in which the premises are situate, on the kind of retail dicence now held, and whether or not it is intended to continue to take out both the wholesale and the retail licences.

Where the dealer's licence is discontinued: In England the sum of 21. 8s. is to be deducted from the appropriate yearly rate according to the scale shown above and the balance paid in respect of the liability for the year ending June 30, 1910. In the case of a person holding, in England or Ireland, the foreign liqueur bottle licence, the sum to be deducted will be

only Il. 12s.
Where the dealer's licence is continued: Here the trader will be liable in respect of the licences already held by him, which expire on June 30, 1910, to the following sums: 31.5s., the proportionate part of the old dealer's rate due for the period from July 6, 1909, to September 30, 1909, together with 7L. 17s. 6d., being 50 per cent, of the wholesale licence at the new rate, and a sum varying according to the annual the new rate, and a sum varying according to the annual value of the premises on the scale set out above for the retailer's licence, less in every case a deduction of 13/. 13s., the licence-duty already paid on the old licences. This leaves a sum varying from 2l. 19s. 4d. to 32l. 17s. 8d., according to the annual value of the licensed premises, to be paid in respect of liability on the existing licences. He will be called upon to pay at the same time the duty on the new licences for the year commencing July 1, 1910; this will be made up of the fixed sum of 7l. 17s. 6d. for the wholesale licence, and from 10l. to 50l. for the retailer's licence, according to the annual value of the premises. The total sum which will be due from him on July 1, 1910, will thus be found to vary from 20l. 16s. 10d. to 90l. 15s. 2d., according as the annual value of his premises varies from under 10l. to exceeding 500l. in constant with the premise of the premise of the premise varies from under 10l. to exceeding 500l. in constant with the premise of formity with the scale given above for the new retailer's Licences.

"Pepper Adulteration."

WE have received a complaint from Messrs. Wright, Crossley & Co., of Liverpool, through their solicitors, that the paragraph under this heading reprinted in our issue of June 18, 1910, p. 938, as from The Chemist and Drug-GIST of June 15, 1860, is libellous upon them. We take the earliest opportunity of saying that the statements therein contained have no reference whatever to the present firm of Messrs. Wright, Crossley & Co. As our readers are well aware, under the title of "Our Retrospect" we are reprinting regularly notes from our issues of fifty years ago, and the paragraph complained of was one of these reprints, and was never intended to refer to the present firm of Messrs. Wright, Crossley & Co. In writing to us Messrs. Wright, Crossley & Co.'s solicitors state:

"We have referred to the papers for the period and the only case in which we can find Messrs. Wright, Crossley & Co. were concerned is a case which was tried on March 16, 1860, before the late Mr. Stamford Raffles and Mr. Castellain, in which we find a charge of adulteration of pepper was made against the firm in question. The Bench were satisfied that there was no adulteration and dismissed the

case. Notice of appeal was given at the Sessions and the officers of Excise having satisfied themselves that the charge of adulteration was unfounded, the appeal was withdrawn.' We are also informed that the cases against retailers referred to in "Our Retrospect" were reversed on appeal. In giving publicity to these statements, we desire to express our great regret to Messrs. Wright, Crossley & Co. that any annoyance should have been caused them by our reprint.

The Dentists Act, 1878.

WE are informed that a Bill has been drafted by the British Dental Association for the purpose of amending the Dentists Act, 1878, and that this will be submitted for approval to the annual meeting of that body to be held on August 4. Any future action that may be taken depends, of course, entirely upon the result of that meeting. The draft is subject to revision. The contention of the British Dental Association is that the words "specially qualified" in Section 3 signify competency to practise dentistry. The decision of the House of Lords in April last in the case of Bellerby v. Heyworth and Bowen was to the effect that the words refer not to competency but to academic qualification. For the protection of the public the Association is now seeking an amendment of the law; but in view of the fact that the draft Bill is not to be considered until August 4, when Parliament will be on the eve of adjourning, there is no prospect whatever of anything being done in the course of the present session. It is understood that the operative clause in the proposed legislation is to prohibit anyone, after the passing of the Act, from practising as a dentist unless he is registered.

Westminster Wisdom.

A Record of Parliamentary Progress.

THE DURATION OF THE SESSION.

There is every reason to believe (writes our Parliamentary correspondent) that the Session will be brought to a close in the first week in August. It is still uncertain whether Parliament will be called upon to reassemble in the autumn in connection with the controversy with the House of Lords.

FERTILISER AND FEEDING-STUFFS ACT.

Lord Clifford of Chudleigh proposes to ask the President of the Board of Agriculture and Fisheries in the House of Lords on Monday next why the consent of his Department required under the Fertiliser and Feeding-stuffs Act, 1906, Section 6, Sub-section 3, was withheld in a case where the official analyst appointed by the County of Devon found that in the sample of cattle-food in question there was 40 per cent. of wood sawdust, and the county wished to prosecute under Section 6, Sub-section (1) (b).

CORONERS' LAW AND DEATH CERTIFICATION.

Sir William Collins has, we are informed, postponed until next week the Second Reading of his Coroners' Law and Death Certification Amendment Bill, by which time it is anticipated that copies of the measure will be in the hands of members. The Bill is founded partly upon the report of Sir Walter Foster's Committee of some years ago, and partly upon the recommendations contained in the more recent report of the Departmental Committee on Coroners' Law and the Practice in Coroners' Courts, which was presided over by Sir Mackenzie Chalmers. It is believed that the Bill is practically unopposed, save by the medical herbalists.

Perfumery Exports from Nice.—In 1909 there was a falling-off as compared with the preceding years in the value of non-alcoholic perfumes exported from Nice. It is possible (says the British Consul at Nice) that in 1909 the higher-priced non-alcoholic perfumes, or some of them, may have fallen out of favour. There was, however, a compensation in the shape \mathbb{C}_2^{Σ} a rise in the value of alcoholic perfumes exported.

Cinnamon-bark Oil.

By Charles Alexander Hill, B.Sc., F.I.C.

W HEN an essential oil is valued for the sake of one of its constituent substances its assay follows, naturally, sooner or later, according as the chemical problem be easy or the reverse; and in course of time the oil itself may come to be replaced for technical and even medicinal purposes by its chief constituent, which may be derived from the oil or may even be obtained synthetically.

If the replacement of the oil by the constituent for which it is assayed does not occur to any great extent, then the obvious inference is that the natural oil has a value, which may be an odour value or a medicinal value, by reason of some other constituent or constituents which may even be unknown. In such a case the assay eannot

be said to be true.

The assay of an essential oil is on all-fours with that of a drug or galenical preparation; when it becomes possible completely and satisfactorily to assay it by chemical means, then, logically, it must cease to have a raison d'être.

It occasionally happens that the essential oils yielded by two different plants have very similar proximate compositions, or have in common a constituent usually adjudged as the most important, yet they may be very readily distinguished by the nose, and in fact may have widely different monetary values; perhaps the oil which eontains less of the common constituent may even be the higher priced.

This is actually so with the oils of cinnamon and eassia, and in such a case it becomes of increasing interest and importance to examine more closely than usual the chemical and physical characters of the oils and their

several constituents.

As would be expected in such cases, it sometimes happens that the physical characters are similar and that the two oils are differentiated analytically only by comparing data for several of the physical and chemical properties, when it will be found that there are slight differences always in the same direction, which small differences in toto constitute an unmistakable differentiation. This is the case with the oils of dill and caraway fruits, but with cinnamon and cassia oils it is not so; for with the latter pair we have a strongly marked difference in at least one physical property-namely, the refractive index

It has recently become fashionable to speak slightingly of the refractometer as a weapon in essential-oil analysis; partly, it seems, because everyone does not possess a refractometer, and partly, perhaps, because the factor has not opened up a royal road in essential-oil analysis as, when it was first introduced, some persons apparently expected it would. It is, of course, just one physical property, like specific gravity or optical rotation; often it is of little value in essential oil analysis, but sometimes it is very useful, and in the case of cinnamon oil quite

important.

TABLE 1. Cinnamon-bark Oil.

Sample	R.I. 25°	Sp. Gr. 15°	Aldehyde per cent.	Eugenol per cent.	Colour with FeCl ₃
1 2 3 4 (a) 5	1.5753 1 5767 1.5734 1.5727 1.5797	1.026 1.0265 1.028 1.0265 1.030	57.5 60 59 58.5 58	8 8 6 6 8	green ,, brownish green
6	1.5747	1.029	58	8	*,
(b) 7 (b) 8	1.5614 1 5752	1.003 1.023	50 59	8 7	"

⁽a) Nine years old and very resinous.

(b) English.

Coming now to the consideration of this oil in more detail, attention is first called to Table 1, which shows analytical data for six samples taken from bulk of cinnamon-bark oil of the choicest aroma, imported in quantity over a series of years, direct from Ceylon, by The British Drug Houses, Ltd., and their predecessors. It will be seen that the refractive index varies only from 1.5727 to 1.5767, except in the case of one sample which was from a consignment of oil stated to be more than nine years old, where the figure had risen to 1.5797. This particular sample was very resinous, from its age. Samples 7 and 8 were English-distilled oils of good aroma, the figures for which will be of interest.

TABLE 2.

Sample	R.I. 25°	Sp. Gr.	Aldehyde per cent.	Eugenol per cent.	Colour with FeCl ₃
1	_	1.039	59	7	brownish
					green
2 3	_	1.038	59	8	olive-green
3	_	1.039	72	7	green
4 5	_	1.0385	76	7	,,
5	1 5891	1.049	71	8	brown.
6	1.5880	1.0375	70	7	,,
7	1.5890	1.0396	71	8	1,5
8 9	1.5845	1.038	72	5	, ,,
	1.5869	1.0295	71	8	deep green
11	1.5844				light brown.
12	1 5847	1.03	73	8	promn
13	1.5812	1.023	71		green
*14	1.5655	1.043	43	37	deep green

* Evidently adulterated with leaf oil to the extent of about 40 per cent.

As will be seen from Table 2, which gives similar data for fourteen other samples of cinnamon oil of varying quality and price, the refractive indices range much higher—from 1.5844 to 1.589.

TABLE 3.

 $S_{\cdot}=$ Schimmel & Co.'s published figures. $P_{\cdot}=E_{\cdot}$ J. Parry's "The Chemistry of Essential Oils," B.D.H. = figures from analytical laboratory of the B.D.H., Ltd.

Oil	R.I.	Sp. Gr.	Alde- hyde per cent.	Eugenol per cent.	Colour with FeCl ₃
Cinnamon leaf P. ,, S. ,, B.D.H.		1.045-1.060 1.044-1.065 1.047		75-85 70-90 83	deep
Cassia P.	In text 1.585-1.600 In table 1.582-1.599	1.050-1.065	75-90	_	green.
" " S. " B.D.H	1.5966-1.6026	1.055-1.065 1.061-1.069		_	choco- late- brown

In Table 3 are given data for cassia oil and cinnamonleaf oil, while in Table 4 are shown figures for cinnamic aldehyde, eugenol, pinene, and phellandrene.

From a comparison of the figures given, it will be seen that the oils referred to in Table 1, which were cinnamonbark oils of undoubted genuineness and possessed of a true and delicate cinnamon flavour, are characterised by and distinguished from cassia oil and cinnamic aldehyde by (1) a low specific gravity (below 1.04), (2) a low refractive index (below 1.58), (3) a low aldehyde-content (below 65 per cent.), and by affording a green colour with ferric chloride.

It will be seen from Table 4 that a high proportion of cinnamic aldehyde raises both the specific gravity and the refractive index, and that adulteration with leaf oil would, of course, result in an unduly high proportion of eugenol.

TABLE 4.

S. = Schimmel & Co.'s published figures.
P. = E. J. Parry's "The Chemistry of Essential Oils."
B.D.H. = figures from analytical laboratory of the B.D.H.,
Ltd.

Substance	R.I.	Sp. Gr. 15°	Remarks
Cinuamic aldehyde: (1) B.D.H.	1.6166 (25°)	1.063	Entirely absorbed by neutral sul-
,, (2) B.D.H.	1.6173 (25°)	1.057	phite process 98 % absorbed by neutral sulphite process. Brown with FeCl ₃
,, (2) P. ,, (3) S. Pinene S.	1.5370 (25°) 1.5400 1.5439 1.4655 (21°) 1.486 (19°)	1.070 1.072 0.858	

Chemical Society.

THE last meeting of the present session was held on Thursday, June 16, Professor H. B. Dixon, F.R.S., in the chair. There was a long list of papers down for reading, but very few of these presented any features of pharmaceutical interest. Messrs. Lowry and John read Parts XII. and XIII. of "Studies of Dynamic Isomerism," which dealt with the isomerism of the amides and piperidides of camphorcarboxylic acid. Dr. Morgan and two of his colleagues followed with papers entitled "The Constitution of o-Diazonines" and "The Colour and Constitution of Diazonium Salts." A return to subjects of more general interest was made with Dr. Chattaway's paper on "The Preparation of Tetranitromethane." The method consists in adding fuming nitric acid to acetic anhydride and setting the mixture aside for about a week, when a quantitative yield of tetranitromethane is obtained by merely pouring the mixture into water. The compound separates as a heavy, oily, colourless liquid, which merely needs washing with a little alkali to be quite pure. Mr. A. Clayton followed with two papers on "The Chemistry of Coumarin," in which he showed that the production of substituted coumarinic acids by the action of alkalies on coumarins only occurs if substitution has taken place with certain groups—e.g., NO₂ or CH₃—and in certain positions. In other cases the action of alkalies leads to decomposition and the formation of derivatives of salicylaldehyde. On treatment with nitric acid a single - NO, group only goes into the benzene nucleus of coumarin, the next invariably goes into the lactone ring. A number of interesting and abnormal relationships were also traced between the colour of the aminocoumarins and their constitution. "The Nitrated Azo-Compounds" formed the subject of the next communication by Messrs. Baly, Tuck, and Marsden, who were concerned to disprove Dr. Hewitt's suggestion that the colour of these bodies is due to their possessing a quinonoid structure. The authors have prepared a number of these substances, substituted in various ways, which would seem to preclude the migration of double linkages necessary for Dr. Hewitt's hypothesis. All these compounds are deeply coloured, whence the authors conclude that the colour is not associated with a quinonoid structure, and they explain it on the same physical basis as they have adopted in other cases. Dr. Hewitt, in discussing this paper, pointed out that in some experiments made recently he had found that in compounds of this type deepening of colour on substitution of new groups only occurred with certain groups, and these groups were just those which lent themselves to the quinonoid formulation. He was assailed, however, by Dr. Forster, who wanted a precise statement of what is meant by "deepening of colour," and pointed out how one prominent exponent of the quinonoid theory had already got into difficulties by using ill-defined phrases of this kind. Mr. Baly, in his reply, completed the discom-

fiture of the "quinone school of colour chemists," for that evening at any rate, by asserting that the deepening of colour in some of Dr. Hewitt's cases was physiological and not physical. At this stage the President, on account of the lateness of the hour, closed the discussion and called on Mr. Bloxam to read a paper, by himself and Mr. A. G. Perkin, on "Indirubin." This is part of an investigation entrusted to Mr. Bloxam by the Government of India. He has already discovered a satisfactory method of estimating indigotin or indigo-blue in indigo, and the present paper dealt with a process of estimation for indirubin or indigo-red. For this purpose a weighed quantity of the indigo is extracted with pyridine in a special form of Soxhlet extractor, and the solution obtained is made up to a certain volume and compared with a standard indirubin solution in a Dubosc colorimeter. During the evening a ballot for the election of Fellows was held, when the following gentlemen connected with pharmacy were elected: J. Grieve, Ph.C. (director of Messrs. Frazer & Green, Ltd., Glasgow), J. Haycock, Ph.C. (Messrs. T. H. Lloyd & Co., Leicester), and J. H. Smith, M.P.S., of Radcliffe, Lancs.

Pharmaceutical Society.

NORTH BRITISH BRANCH.

A MEETING of the Executive was held at 36 York Place, Edinburgh, on Friday, June 17, Mr. J. P. Gilmour (Chairman) presiding.

The Chairman referred to the death of Mr. Michael Carteighe, and on his motion, seconded by Mr. W. Giles (Vice-Chairman), a resolution of condolence was passed. Mr. Gurrie (Vice-President of the Society) and Mr. David Gilmour also supported the resolution. A similar vote in regard to the late Robert Lindsay, of Peebles, was passed.—The Chairman congratulated Mr. Currie on behalf of the Executive on his reappointment as Vice-President of the Society, and Mr. Currie replied. The report of the Scrutineers in the election of the new Executive was ordered to be laid before the annual meeting. The Assistant Secretary intimated that the Edinburgh District Chemists' Trade Association had given a donation of 2l. 2s. to the Benevolent Fund and 1l. 1s. to the Orphan Fund.

THE ANNUAL MEETING of members of the Society resident in Scotland was then held, Mr. Gilmour presiding. In the course of

An Address

the CHAIRMAN referred to the death of Michael Carteighe, and said that his foresight and statesmanship gave the Pharmaceutical Society a habitation of its own in North Britain. Though there was some slight misunderstanding at the period of transition, it was again his good sense which led to the establishment of the North British Branch on the present footing, under which Scotsmen had been enabled to make the work of the Council effective and to conserve and promote the best interests of the Society in Scotland. He also referred to the fact that it was largely due to the energy and experience of Mr. Carteighe that the premises had since 1894 included the present eminently suitable examination-hall and laboratories. He also referred to the occasion in 1901 when Mr. Carteighe, during a heavy snowstorm, travelled from London to propose the toast of the North British Branch on the occasion of its jubilee. He proposed that they should put the statement he had read on the record of this meeting, together with a letter from Mr. Storrar, which he read, and which spoke of Mr. Carteighe's leadership. The Chairman's motion was agreed to. Mr. Gilmour then reported in detail on the work done by the Executive during the past year, especially touching upon the administration of the Poisons and Pharmacy Act, local organisation, and the scientific meetings. He regretted that the membership of the Society in Scotland was not forty-one more than last year, as had already been reported, but five less.

ELECTION OF EXECUTIVE.

The Assistant Secretary then read the report of the Scrutineers, which stated that 802 nomination papers were issued and fifty-nine persons were nominated, of whom

gow) arc new members.

twenty-two signified their willingness to act if elected. A voting list was then drawn up, and 803 voting papers were issued. Of these 246 were returned, but four were informal, and 242 votes had thus to be recorded. The result of the examination of the voting papers was as follows: David Storrar, 228 High Street, Kirkcaldy ... 216
James Pinkerton Gilmour, 512 Catheart Road, Glasgow 206
Wm. Giles, 123 Crown Street, Aberdeen ... 201
George Coull, 5 West Claremont Street, Edinburgh ... 195
Wm. Doig, 9 High Street, Dundeo 185
John A. Forret, 26 Brougham Place, Edinburgh ... 185 John A. Forret, 26 Brougham Place, Edinburgh ...
John Hutchison Fisher, 74 High Street, Dunfermline ...
Chas. Kerr, 56 Nethergate, Dundee ...
John W. Sutherland, 127 Buchanan Street, Glasgow ...
Wm. Beaverley Cowie, 26 Clyde Street, Edinburgh ...
Donald Mitchell, 30 Union Street, Inverness ...
Martin Meldrum, 150 High Street, Irvine ...
James Nesbit, 238 High Street, Portobello ...
James Anderson Russell, 3 Grey Place, Greenock ...
Archibald Currie, 102 Ferry Road, Leith ...
Jas. Lennox, 5 Queen Margaret's Place, North Kelvinside, Glasgow ... 176 168 166 164 side, Glasgow ... Wm. P. Wilson, 36 High Street, Haddington Jas. Moir, 447 Victoria Road, Glasgow ... 153 The above eighteen, together with the President of the Society (Mr. John F. Harrington), the Vice-President (Mr. W. L. Currie), and Mr. David Gilmour, Dunfermline, as ex officio members, were declared as constituting the Executive for the year 1910-11. The following were the unsuccessful candidates: George Somerville, 2 South Clerk Street, Edinburgh ... 152 John Bain, Penzance House, Bridge of Allan 139 George Stephen, 12 Gordon Street, Huntly ... Wm. S. Scobie, 36 Shandwick Place, Edinburgh ... Mr. Archibald Currie (Leith) and Mr. James Moir (Glas-

Association Affairs.

Brief Records.

Chemists' Assistants' Association.—A meeting of the new Council was held at 73 Newman Street, London, W., on June 16, Messrs. Loxley, Grange, Latreille, Barbour, Tocher, and Bennett being present. The President (Mr. F. L. K. Loxley) having yelcomed the new members of the Council, Mr. Loxley was thanked for his enthusiastic services as President, and regret was expressed that he would not consent to take office for a further year. Mr. Grange was proposed for the Presidentship by Mr. Loxley, Mr. Latreille seeonding the motion, which was carried. Mr. Grange accepted office amid applause. Other officers were next chosen as follows: Vice-Presidents, E. Thompson and A. Barbour; Hon. Vice-Presidents, F. L. K. Loxley; Hon. Treasurer, A. Latreille; Hon. Secretaries, G. A. Toche (financial), F. J. R. Bennett (literary). Members constituting the remainder of the Council are Messrs. Arrowsmith, Crossley-Holland, Peake, Gwatkin, Haigh, Mitchell, Phillips. Other discussions related to the work of the next session. An invitation from Messrs. Parke, Davis & Co. for the Association to visit their works was hearitly accepted. Messrs. Arrowsmith and Crossley-Holland were appointed delegates to the Pharmaceutical Conference.

Executive has decided not to hold the quarterly meeting now due, as there is no pressing business requiring attention and the members feel that the best interests of the Union will be served by expending the money on propaganda purposes at this stage. With reference to the Cheltenham incident, the Executive deplores that Mr. Dowty should report a meeting of three persons as establishing a branch, and regrets that the hospitality extended to the Union by the editors of the trade-journals should have been abused. While the Union dissociates itself from Mr. Dowty's action, the Executive, in recognition of past services, declines to accept the resignation of the treasurership tendered by him. In order that the Union shall not be held responsible for local irregularities, the Executive advises, subject to the approval of the annual meeting, "That a branch of the Union shall not be formed with an initial membership of less than six persons, or branch business conducted with a quorum of less than four members," this in the meantime to be an instruction to members and branch secretaries. The conditions upon which the unqualified shall be admitted to the Union were left by the annual meeting with the Executive to decide, and no further restrictions are to be imposed other than that they shall have passed the Preliminary examination.

Marriages.

ALEXANDER—LAWRENCE.—At the Imperial Hotel, Aberdeen, by the Rev. R. McKinlay, on June 18, Robert Alexander, chemist and druggist, Strichen, to Mary, daughter of Mr. C. O. Lawrence, shipmaster, Aberdeen.

Bell—Souten.—At the Central Hotel, Aberdeen, by the Rev. Donald McFarlan, M.A., on June 18, Theodoro Theodorson Bell, chemist and druggist, to Etta, youngest daughter of the late Lawson Souter, shipmaster, Lossiemouth.

McLennan—Ross.—At Caledonian Station Hotel, Edinburgh, on June 15, by the Rev. J. A. Johnstone, Dryfesdale, Lockerbie, assisted by the Rev. R. Sangster Anderson, Kenneth J. C. McLennan, chemist and druggist, Gilmoro Place, Edinburgh, to Lizzie, younger daughter of the late Rev. George Ross, Hoddom Parish Church, Ecclefechan.

RITCHIE—CLARK.—At. St. Andrew's Church, Sharrow, on June 18, by the Rev. F. G. Scovell, vicar, William James, third son of Dr. Ritchie, M.D., of Riversdale, Hoyland, to Susannah May, younger daughter of the late John Clark, Ph.C., and Mrs. Clark, of Sherbrooke Villa, Nether Edge.

Weir-Pearson.—At 53 Kelvinside Gardens, Glasgow, on June 14, by the Rev. John Weir, M.A., Forfar, assisted by the Rev. John Safeley, M.A., Glasgow, John Weir, chemist and druggist, Clydebank, to Edith Pearson.

Wood—Wood.—At the Masonic Hall, Kilmarnock, by the Rev. J. S. Robertson, B.D., on June 17, Andrew Wood, Ph.C., Kilmarnock, to Mary, second daughter of Mr. Frank Wood, Hespeler, Ontario.

Deaths.

Brailey.—At 4 Lower Stafford Terrace, Heavitree, Devon, on June 9, Mrs. Brailey, widow of Mr. Chas. Brailey, chemist, of Heavitree, aged ninety-one.

Davies.—On June 19, Mr. John Davies, chemist and druggist, 99, Mansel Street, Swansea, aged fifty-four. Mr. Davies passed the Minor in 1878, and after gaining Continental experience he opened a pharmacy in Oxford Street, Swansea, where he carried on business for twenty-eight years. Two years ago he removed to Mansel Street. He was an active member of the Caradoc Lodge of Freemasons. He leaves a widow and five children.

GWATKIN.—At 49 Grand Parade, Brighton, on June 14, Emily Frances, wife of Mr. James Ross Gwatkin, chemist and druggist, aged sixty-two.

LEACH.—On June 8, Mr. John Leach, chemist and druggist, Crawley, Sussex, aged seventy-seven.

MAYFIELD.—At Beaconfield Lodge, Clacton on-Sea, on June 17, Mr. John Thomas Mayfield, Ph.C., aged sixtynine. Mr. Mayfield passed the Major examination in July 1864, and for some time acted as assistant to Sir Joseph W. Swan in his electrical and photographic researches. He subsequently set up as a chemist on his own behalf at Nottingham, but abandoned pharmaey and, coming to London, started an electrical business in Queen Victoria Street within sight of the C. & D. office. He retired twelve years ago and went to reside at Clacton. He leaves a widow, one son, and two daughters.

MILLER.—At the Hospital, Leith, on June 17, Mr. Alexander Miller, chemist and druggist, aged forty-one. Mr. Miller was formerly for ten years in business at 567 Duke Street, Glasgow, and latterly at 329 Leith Walk, Leith.

Palmer.—At Ledbury, on June 22, the wife of Mr. John Palmer, representative of S. Maw, Son & Sons, Aldersgate Street, London, E.C., aged sixty.

Spurling.—At the "Hawthorne," Stanley Road, Teddington, on June 10, Mr. William Elliston Spurling, chemist and druggist, 187 Draycott Road, Chelsea, London, S.W., aged sixty-eight.

TRASK.—At 48 Cathles Road, Balham Hill, on June 7, Mr. Thomas Trask, pharmaceutical chemist, aged eighty-three. Mr. Trask passed the Minor examination in 1846

and the Major in 1849, the latter as a student in the School of Pharmacy, where in 1848 he took the first prize for botany, and in 1849 the Materia Mediea prize. He was elected a member of the Pharmaccutical Society in 1857, and earried on a business for some years in Albany Street, Regent's Park, in the premises where Sir William Jenner, the late Queen's physician, once had an open surgery. Mr. Trask relinquished this business about 1867, and was employed for a short time as assistant to the Curators of the Society's Museum in 1868, and afterwards for some years was engaged in the office of Messrs. Morson & Son's wholesale warehouse in Southampton Row. After leaving Messrs. Morson's he acted as dispenser for a time in a West End dispensary, but had retired from all business pursuits for many years. The interment took place at Streatham Cemetery on June 10.

Wedge,-On June 13. Mr. George Weller Wedge, pharmaceutical chemist, 32 Wilton Avenue, Southampton, aged fifty-seven.

Recent Wills.

Mr. Alfred Thorby Long, J.P., Ph.C., of Bognor, who died on April 19 last, left estate of the gross value of 3,810l. 12s. 5d., of which 2,404l. 11s. 11d. is net personalty.

MR. GEORGE FREDERICK SUTTON, of Oaklands, Holly Park, Crouch Hill, N., and of Messrs. G. F. Sutton, Sons & Co., Osborne Works, Brandon Road, King's Cross, N., left estate of the gross value of 70,863%, of which the net personalty has

been sworn at 69,4021.

been sworn at 69,402l.

MR. MICHAEL CARTEIGHE, Ph.C., F.I.C., etc., of Oriel, Goring-on-Thames, Oxon, who died on May 30, left estate of the gross value of 61,753l. 1s. 6d., of which the net personalty has been sworn at 48,282l. 2s. 11d. Probate of his will, dated May 7, 1907, has been granted to Mr. Fredk. Bascombe, of 17 St. Saviour's Road, Brixton Hill, S.W., and Mr. John William Castle, of 17 Mortimer Street, W., manufacturing chemists. The testator left 550l. each to Sarah Litchfield and Harriet Litchfield, sisters of his late wife; Maud Litchfield and Edith Wicks, nicces of his late wife; and Mrs. A. H. Smalley, widow of his nephew, John Smalley; 1,000l. to Mary Elizabeth Brough, M.A., Dublin; 500l. and his late wife's jewellery to Eveline R. Filippi; 500l. to Miss Beatrice Lansdown; 250l. each to William, Thomas, Walter, Luke, Emma, Ellen, and Margaret, children of his late sister, Margaret Smalley; 250). each to William, Thomas, Walter, Luke, Emma, Ellen, and Margaret, children of his late sister, Margaret Smalley; 2,000). to the Pharmaceutical Society of Great Britain, for the augmentation of the Society's general fund; 250l. to A. J. Payne, warehouseman at his Foley works; 250l., all of his books, and his shares in the Formalin Hygienic Co., Ltd., to Bennett Hooper Brough, Secretary of the Iron and Steel Institute [Mr. Brough died in 1908.—ED. C. & D.]; 50l. to Blanche Hayward, his housekeeper at Oriel; 10l. to each of his workmen and lads employed in connection with his business, and to each of his domestic servants and gardener. The residue of his property he left to his nephery. John The residue of his property he left to his nephew, John Carteighe, whom failing, as to one-half to Constance, wife of his said nephew, and one-half to R. Burton Rowe, insurance agent, of 57 Esmond Road, Chiswick, W., whom failing, to the Pharmaceutical Society of Great Britain for the augmentation of the Society's General Fund.

Personalities.

Notes for this section must not be in the nature of advertisements, and they should be authenticated when sent to the Editor.

Dr. Raphael Meldola, F.R.S., has been appointed Herbert Spencer Lecturer at Oxford University next Michaelmas term.

Mr. George Schachna, of Cape Town, is now in London on a business visit, and letters for him may be addressed to the C. & D. office.

Mr. J. E. Hudson, Ph.C., of 71 High Street, Sheerness, was installed Worshipful Master of the De Shurland Lodge of Freemasons on June 15.

MR. T. CHARLES, chemist and druggist, of Queen Street, Burslem, has been elected to the committee of the newly formed local Traders' Association.

Mr. John E. Miller, chemist, Grahamstown, South Africa, is visiting Scotland, and is staying at 4 Victoria Road, Saltcoats. He expects to be in London shortly.

Mr. R. C. Cowley, Ph.C., F.C.S., Principal of the College of Pharmacy, Brisbane, has been gazetted honorary lieutenant in the Australian Army Medical Corps Reserve.

Mr. W. K. Jackson, chemist and druggist (of Messrs. Harrison, Parkinson & Co., Sunbridge Road, Bradford), has been elected to the Council of the Bradford Chamber of Trade

MR. WM. ALFRED JONES, director of the Original Antiseptic Pastille, Ltd., Liverpool, leaves on June 25 for a business tour through the United States, Canada, and the West Indies.

Mr. James Graham, pharmacist, 448 Seotswood Road, Newcastle-on-Tyne, had the degree of Baehelor of Science conferred upon him at a convocation of the Durham University held on June 21.

Mr. Frank Moss, chemist, Bristol, has won the silver cup in the running bogey competition at Rodway Hill Golf Club. He was first with two consistently good rounds, 1 up in the first, and 2 up in the second.

At the Provincial Grand Lodge of Norfolk, held at Harleston on June 9, W. Bro. Horace J. Heyhoe, chemist, Fakenham, was invested Prov. Grand Director of Ceremonies for the Province for the ensuing year. Bro. Heyhoehas occupied the W.M.'s chair for two years in Joppa Lodge No. 1114. He is also a P.P.G.D.C. in the Prov. Grand Chapter of Oxfordshire.

Summer Outings.

At Monikie.

The Dundee Chemists', Assistants', and Apprentices' Association had their annual picnic on Wednesday, June 15. A company numbering about sixty left Dundee about 3 P.M., and drove in brakes to the Dundee Waterworks at Monikie. arrival at the grounds tea was served. After tea the younger members passed the time at football, cricket, etc., while the older members had a walk round the beautiful grounds. weather was all that could be desired. The return drive was made by way of Arbroath Road, the party reaching town about 11 P.M.

Garden-party.

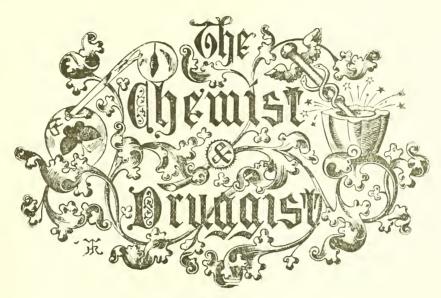
The employés of Messrs. Burroughs Wellcome & Co. had a garden-party at the Wellcome Club and Institute, Dartford, grounds on Saturday, June 18. Ideal weather conditions prevailed, and the charming grounds were througed with an animated gathering of pleasure seekers. The early hours of the afternoon were devoted to field sports, boating, and a variety of specially provided amusements, musical selections being rendered by the Dartford Town Band. Later on tea was served in the orchard garden. During the evening an excellent vocal and instrumental concert was given by members of the Wellcome Philharmonic Society, and the evening was devoted to dancing. The grounds were illuminated after sunset

Maidenhead Revisited.

One never tires of the River Thames, whether he be Londoner or provincial, and Skindle's at Maidenhead seems Londoner or provincial, and Skindle's at Maidenhead seems to be very attractive to those who spend their work-days at 42 Camon Street, London, E.C. They went there last year to celebrate the jubilee of the foundation of the C. & D. and its associate journal, as guests of the proprietors. On Friday, June 17, they were there again, in better weather, enjoying the beauties of landscape and river. At the luncheon Mr. G. V. Morgan presided, Mr. S. V. Morgan and Mr. P. V. Morgan, with leading members of the staffs, supporting him. In reply to the toast of "The Firm," given by Mr. Liddell, the Chairman remarked that the first year of the second half-century had been a good one, and he referred to the more century had been a good one, and he referred to the more important features of 1909-10. After luncheon the greater number of the party took a steam-launch up the river, and others drove to Burnham Beeches. The staffs again assembled at Skindle's for tea, which, with music, completed a happy

A Half-holiday from Liverpool.

On Thursday, June 16, thirty-five members of the Liverpool Chemists' Association and friends took part in a picnic organised by the Association. Leaving Liverpool at midday, the party travelled from the Central Low-level viâ Rock Ferry to Chester, then proceeding up the Dee by steamer to Eccleston Ferry, from which a leisurely walk through the lordly demesne of Eaton Hall brought them to the gardens



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AND

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JANUARY TO JUNE, 1910.

HEAD OFFICE:

42 CANNON STREET, LONDON

BRANCH OFFICES:
ADELAIDE, MELBOURNE, AND SYDNEY, AUSTRALIA



INDEX.

Note. The Index is strictly alphabetical except in the case of "Legal Reports," which are classified under that heading. For the numbers after March 5 the folios at the bottom of the pages are given.

ABEGG. DR. R. (death) 571, (scholarships) 893
Aberdeen Dispensary, report 380
Aberdeen Pharmaceutical Assocn. 225, 333, 405, 565, 786, 894
Aberdeen, price-cutting at 461, 497
Aberdeen Royal Infirmary, report Abordeen School of Pharmacy 68, 461, 930 461, 950 Aberdeen University and phar-macy course 598 Aberdeen's clinical thermometer Abol insecticide 143
Abortifacients, administering
(police charge) 379
Absinthe, chemical composition 461 Absorbine testimonials 42 Absorbine testimonials 42
Absorption-spectra theory 386
Abyssinia, trade of 907
Acacia exports (Sudan) 606
— collection (illustrations) 778
— Tangye on 817
Acetanilide, harmless 221
Acetic acid, glacial, strength of 110 710 958 Acetyl salicylic acid (see Aspirin) Acetylene (book) 782 Acid, mercurial lotion 926 Acids (see specific name, e.g. Acetic) Acme Bottle Mfg. Co., Ltd. (debentures) 696

"Acme" eye-glasses 609
Aconite. effect on skin 397
— growing 181
— liniment poisoning 678
— as pain-reliever 397, 439, 453
— poisoning 591, 678
Aconitine granules 13
Acto Midg shutter 745
Adams, W. (death) 697, (appreciation) 837
Adamson, Rev. W. (death) 791 Acme Bottle Mfg. Co., Ltd. (dc-Adamson, Rev. W. (death) 791 Addison, C. (parl. candidate) 53 Adhesive (cheap) 96, (for office Adhesive Dry Mounting Co., Ltd. (exhibit) 575 Adhesive ruhber plaster, Ph.G. 401 Adiptine, skin cream 482 Adrenalin in plague 640 — tape 157 - tape 157

See also Suprarenal gland
Adulteration, Committee of Reference (H.C. nuest) 663
Adulteration Repression Congress
(see International Congress for Repression of Adulteration)

Adulteration, suppression (Lloyd

Advertisement canvassing frauds

— by doctors 64

— ideas (calendars as) 11. (time-tables) 11. (election bill) 108, (thermometer) 171, (Hallev's comet) 243, (perfume cards) Supp. Ap. 30. (carnival dress) 760, (insect bites). (photo-supplies) Supp. May 28

— necessity of 620
— newspaper, paper on 447
Aërated waters, advertising 3

Advertising for chemists 195 — co-operative 158, 810

old 310

- by doctors 64

Aërated waters, making 454, 475, Aërated waters, making 454, 475, 522, (conditions criticised) 528, 539, 683, 720, 721
Aerators, Ltd. (Sparklet syphon) 544, (new syphon) 573, (exhibit) 698, (exhibit) 745
Agar-agar casearatus 855
— for constipation 826
— exhibit 931 Agreement, continuing 423
— limitation 268, 937 — not binding ou successors 455 Agricultural analysis (books) 423 — Committee 941 — committee 341
— poisons (see Agri-horticultural chemicals)
Agri-horticultural chemicals
(paper) 86, (sale of) 15, (KCy as) 867 poison-licences (sec Poisonlicences) Aidum pinnacle stand 697 Air-gas 375 Airship, filling 5 Ajaccio, pharmacy in 183 Alberta: Examination requirements 626 Albulactin 167, 414 Albumin in urinc, test 867 Alcohol, dangers of 205 Alcohol, dangers of 205
— determining strength 479
— flash-point 344
— old definition 793
— stick pomade 926
— synthesis (Meldola on) 901 synthesis (Meldola on) 901

— tariff (Japan) 500
— untaxed (Australia) 657

See also Spirit
Alc, herbs used in 311, 359
— old recipe 311

Alcptine, skin cream 482

Alkali mfr. (book) 24

Alkaloidal assays, solvents in 823
— tinctures, permanence of 823

— tinctures, permanence of 823

Alkanet oil 561

Allan & Sons. Ltd. (receiver) 443

Allbright & Wilson, Ltd. (debentures satisfied) 635

Allen & Hanburys, Ltd. (feeding-Allan's nasal douche \$15
Allbright & Wilson, Ltd. (debentures satisfied) 635
Allen & Hanburys. Ltd. (feedingbottle supply) 34, (dinner) 52, (Wigmore syringe) 109, (inset) 142, (e.l.o.) 285, (price-protection) 294, (malted rusks) 436, (Sauerin apparatus) 436, (agencies) 628, (Wigmoro nasal douche) 813, (stocktaking) 917
Allen & Hanburys (S. Africa), Ltd. 6, (Durban factory) 38
Allen (Stafford) & Sons, Ltd. (almond oil) 29, (inset) 142, (ol. amygd. persic.) 320, (ess. oil standards) 372
Allen & Ilovd, Ltd. (reg.) 953
Allen's "Commercial Organic Analysis" 24, (review) 481, 816
Alliance Drug and Chemical Co. (price-list) 74, (competition) 628
Alliance Roll Film Camera Co., Ltd. (removed from register) 763
Almanacks see Calendars
Almond oil, labelling 29
Almonds, purchasing, caution 646
Alopecia areata, treatment 202
Altona, Ltd. (reg.) 282
Alum-blocks for shaving 337, 907
Aluminium for hemorrhages 840
Alypin, dental uses 640
Ambulance guide 274
— service in London 378
— motor (H.C. quest.) 663
American Chemical Society (Ph. Chemistry section formed) 366
American Dental Institute, Ltd. (liquidation) 812

American Drug-stores (dinner)
229, (list) 353
American Druggists' Syndicate,
attacked 280, 383, 478, 601
American gooseberry mildew 756
American Medical Association (on
proprietaries) 601
American Pharmaceutical Association 7, 358, 601, 705, (annual
meeting) 823, 847, 849
p - Amido-phenyl-arsonic-toluenesulphonate 84
Amino-naphthyl-arsonic acid 84 American Amino-naphthyl-arsonic acid 84 - Amino - phenyl - mercuric arsenate 167 2-Amino-tolyl-5-arsonio acid 84 Ammonia, decomposed by radium mfr. (book) 24 — mr. (800k) 24 — poisonings 23, 57, 99, Supp. Mch. 5, 378, 438, 591, 792, 814, 896 — soda mfr. 257 Ammonium carbonate, storing 63 chloride inhaler 42 - chloride inhaler 42
-fluoride as preservative 494
Ampoules, sterilising 482
Auæsthesia, dental (book) 782
-invention 499
-local, ethyl-chloride for 802 local, ethyl-chloride for 802
 Anæsthetics, administration (book) 24, (by dentists) 276, 336, (report) 578. (by dentists) 744
 Anæsthetics Bill, R.C.S. on 276
 deaths 505
 Analysis books 24. (Allen's) 481, 816, (books) 96. (Clowes and Coleman's hook) 782, (Perkin's hook) 844
Analyst, work of Supp. Jan. 29
Analysts' appointments 205, 496, 564, 596, 655, 942
— certificate, form of 221, 514
— fees (Battersea) 870, (London-derry) 908, 942
Analysts' reports (Aherdeenshire) 380 (Berkshire) 277 (Barmond) 380 derry) 908, 942
Analysts' reports (Aherdeenshire)
380, (Berkshire) 277, (Bermondsey) 3, (Bethnal Green) 277, 686.
(B'ham) 205, 528, (Bournemouth)
655, (Brighton) 133, (Bristol) 240,
757, (Buckhaven) 566, (Bucks)
757, (Camherwell) 277, (Canterbury) 496. (Deptford) 98, (East
Riding) 205, 686. (Glamorgan)
427, (Glasgow) 4. (Gloucester)
596, (Greenwich) 655. (Hackney)
133, 756, 805, (Hertfordshire) 277,
686, (Holland) 205. (Kensington)
205, (Keut) 277, 805, (Lambeth)
240, 310, 686. (Lancaster) 205,
686, (Leeds) 98, (Leicestershire)
277, (Lewes) 379, (London Citv)
240, 496, (Marylebone) 757,
(Middlesex) 836, (Monmouthshire) 836, (North Riding) 205,
(Paddington) 240. (Poplar) 240,
(Rochdale) 240, (Rotherham) 34,
427, 756, (St. Paneras) 205, 596,
(Sheffield) 240, 241, (Southampton) 277. 836, (Southwark) 240,
686, (Staffordshire) 756, (Stepnev)
379. (Stoke Newington) 756 (Sheffeld) 240, 244, (Southampton) 277, 856, (Southwark) 240, 686, (Staffordshire) 756, (Stepnev) 379, (Stoke Newington) 756, (Walsall) 499, (Wandsworth) 205, 310, 596, (Warwickshire) 205, 659, (West Suffolk) 477, 724, (Westminster) 3, 459, 596, 906, (Wimbledon) 757, (Wolverhampton) 757, (Wolverhampton Analytical chemist," use of title - unprofessional conduct resolu tion 347

Drug-stores (dinner) Anderton, S. (death) 661, (will) Angier Chemical Co., Ltd. (exhibit) 672
Angina pectoris, varieties 640
Angola, trade of 8
Aniline-dyes (book) 376
Animal-skins, softening 802
Animals, dietary instincts 462
Aniso oil, exports (China) 71
— Liverseege on 205, 528
— standards 341, (compared) - Standards 341, (comp 398, 477 Anisecd exports (China) 192 - soluble essence 96 — syrup labelling 807, 919 Ankylostomiasis, treatment 37 Annatto extract 422, (variation) 344 Ant-pest, remody 423, 454 Ant-liffe, H. (personal) 229 Anthony Dentists (Cardiff), Ltd. (liquidation) 352, 696 Anthrax antidote 115 — inconlation for 14 prevention 14 Anti-cutting (see Price protection and Proprietary Articles Trade Association) Antiformin 167, (law-case) 569, 633, 945 Antileprol 167 Antileprol 167
Antimony, Chinese 794
Antimonyl aniline tartrate 167
Antipyrine, harmless 221
Antiseptic Teeth Institute, Ltd. (reg.) 843
Antwerp Society of Pharmacy (anniversary) 859
Aphrodine booklet 156
Aplin, Thackeray & Co., Ltd. (mortgage) 843
Apomorphine hydrochloride, hydrochloride, Apomorphino spurious 51 spurious 51
Apothecaries' Assistants' examination (letter) 267
— and P. and P. Act 45, 63, 94
See also Society of Apothecaries
Apothecaries' Co., Ltd. (L'pool) Anothecaries' Hall in Ireland, preliminary exam. 77 Apothecaries' Society (see Society Apothecaries' Society (see a of Apothecary, use of title 455 Appendicitis, contagious 926 "Apportioner" mixing m 597 mixing machine "Apportioner" mixing-machine 597
Approntice's board and lodging, claim for 535
— hureau (Edinburgh) 930
— claim for damages 728
Apprentices, books for 237
— to dispensaries (Tasmania) 690
— examination (Silesia) 115
— training (Austria) 36, (Bronto on) 331, (letter) 798
— in Transvaal 531
Apprenticeship appeal 41
— indentures (inquiry) 269, (cancelled) 431
— "regular," what is? (law-case)
Supp. Jan. 29, 209, 218, 253, 267, 268, 269, 350. (letter to M.P.s) 365. (lettor) 373, 393
— requirements (Med.-stamp Acts) 365. (letter) 373, 393
— requirements (Med.-stamp Acts)
493, (N.Z.) 759
— study during 904
— view of 773
See also National Industrial
Educational League
Apricot-kernel oil. labelling 29
Apron, disuse of 116
Arabian oil, what is? 201, 268

tion 347 Anatomy (book) 24 Anderson, J. A. (death) 468 Anderson, W. W. (death) 43 Anderson's pills 13

Arachis oil, test for (Hackman on) 1 329, 777 329, 777
Arcanum, derivation 128, 237
Archdale, J. (death) 661
Areca extract 801
Argentine Hygiene Exhibition (see
International Exhibition of Hy-

ARGENTINE REPUBLIC: Perfumery tax 148 Trade of 113 Argus camera 575

Argus camera 575
Armenian bolo 938
Armitage, G. (death) 354
Armour & Co., Ltd. (junket powder) 735, 813
Armstrong, F. (memorial) 63
Army compounders (and P. & P. Act) 968

Act) 906
— pharmaeists (Japan) 6, 500, (Germany) 36, (N.S.W.) 244, 375
See also Territorial Army
— titles (France) 758
Arny's " Principles of Pharmaey"

Arrhenius, lectures by 689 Arrowroot, Queensland (price) 244 Arsangmin 506

Arsenic compounds, organic (Martindale on) 84

— exports (China) 192, (Changsa) 726

- in food, paper on Supp. Mch. 5 - in organic substances, estima-tion 85

- poisoning 99, 286, 296, 482, 630 Arsenical soap, taxidermists' 270 Arthanita cintment 5, 47
Arthanita cintment 5, 47
Arylarsonate in phthisis 123
Asafetida exports (Bushire) 349
— history of 701

- importation (U.S.) 618, (Rusby on) 902

on) 902
- purity of 216
Ash (Claudius), Sons & Co. (report) 812

812
Ashton, E. F. (deed of arr.) 411
Aspirin in prescriptions 903
— trade-mark (Budapest) 46
(Germany) 691
See also Acetyl salicylic acid
Aspirochyl 167
Assam Pasteur Institute 853
Assassmant protest 526

Assessment protest 526 Assistant's claim against employer 106

Assistant's agreement, interpreta-tion 937

- attitude to employers 158
- Australian demand 375 - British, in Paris 164 - how to treat 117

- leagued with physicians (U.S.)

- opening business, preventing 383 - position when business is sold 937

- regulations for (A, and N.

- regulations for (A. and A. Stores) 184
- salary 524
Assistants' club (Paris) 530
- hours (Jones on) 2, 205 (see also Shop-hours)
- notice 305

- salaries (Germany) Supp. May 14 (see also Assistants' wages

- situations abroad 373

— situations abroad 373
— Union (see National Union of Assistant Pharmaeists)
Assistants' Wages Board (N.S.W.)
244 690 727 874
Association of Certificated Dispensers 445
Association of Women Pharmaeists
(see Women Pharmaeists' Association)
Asthma, diet in 772

Asthma, diet in 772 Astigmatic clips, cases for 23

Asurol 167
"At the Counter" (see Orders.

"At the Counter" (see Orders, curious)
Athens, pharmney in 183
Atkins, W. (deed of arr.) 954
Atkinson, G., & Co. (exhibit) 765
Atlas Soan, Oil and Chemical Co.,
Ltd. (receiver) 467
Atomica weights 144
Atomica weights 144

Atomiser for dentists 152
Atropine-poisoning 482

- and quinine eye-drops (disp. note) 374

Attfield. Dr. J. (port.) 621 Auction sale of chemists' stock 214, 426, 726

Auction sales 310, 337, 378, 806 Audry's stick pomades 926 Auratoleine 745

AUSTRALIA: Chemical imports 797

Chemists in 759
Commerce Act (poisons declaration) 101, (regulations) 289, 671

Examination requirements 624 Government change 874 Openings for chemists 833 Poisoning cases 498
Proprietary medicines (sale) 208.

(importing) 255
Tariff decisions 37, 498, 657, 909
See also under New South Wales,
Queensland, South Australia,
Tasmania, Victoria, and

Tasmania, Victoria, and Western Australia Australian Pharmaccutical Con-ference 498

Austria, trade of 196 Autofume Syudicate, Ltd. (reg.)

Auto-inoculation (Wright on) 749

Automatic machines taxed (France) 943 Avery, W. & T., Ltd. (exhibit) 749 Awopa 834

Awopa 834 Axe, J. W. (will) 214 Ayrton & Saunders, Ltd. (mana-ger) 41, (elastio hosiery) 215, (dance) Supp. Mch. 5, (c.l.o. warranty) 466, (toffce) 628, (Manchester representatives) 697 Azo compounds, nitrated 950 Azol developer 575

Bacon, Roger, Memorial, 236 Bacteria culture-media (soloid) Bacteria culture-media 917

917
— effect of cold on 162
Bacteriological stains, books 32
Bacteriology, lecture 445
— for nurses (book) 274
Bailev, W. H., & Son, Ltd. (exhibit, 672

hibity 672
Bain de Pennès 926
Bairds Australian Medicated Soap
Co., Ltd. (struck off) 953
Baiss Bros. & Stevenson, Ltd. (exhibit) 745, (award) 784
Baker, C. F. (port. and death) 845
Baker charity, Clapham 426
Baker, J. A. (parl. candidate) 53
Baker, J. L. (presentation) 257
Baker, J. W. & Co. (creditors' meeting) 657
Baku Russian Petroleum Co. (1909), Ltd. (reg.) 72

(1909), Ltd. (reg.) 72
Balch, E. (death) 354
Bandong Quinine Factory 49, 449

Bankrupteies, contra-accounts in (law-case) 209

— and failures in 1909 83 (see names of bankrupts)

Bankruptey Acts:
Contra-accounts 209
Filing statements 570
Banks, F. (attacked by burglars) Banks, F. (attacked 27725, 836
Panner's Pure Drug Co., Ltd.

725, 836
Banner's Puro Drug Co., Ltd. (reg.) 880
Bannister, P. G. (death) 916
Barber, J. S. (retirement) 229
Barbers' antiseptic spray 722
— rash (protest) 34, (treatment) 32
Barelay, Sir T. (parl. candidate) 53

Darclay, Sir T. [Birmingham] (personal) 76, 435 Barclay & Sons, Ltd. (fire) 459 (report) 561, (salvage sale) 544, 724

724
Bardill, D. W. (death) 468
Bardge bath-salt 926
Barker, R. W. ("Trade-mark Notes") 320
Barker, T. (will) 77
Barklie, R. (port. and death) 845, (appreciation) 872
Barkola "globes" 917
Barleysmut treatment 562

Barkola "globes" 917
Barley-smut, treatment 562
Barcola wine 827
Barratt, T. J. (personal) 435
Barrett, H. G., Ltd. (reg.) 570
Barton, J. (death) 468
Barton, T. (exhibit) 745
Bash & Co. (car-ma-me toilet goods) 353, 415
Bassano, F. W. (port. and death) 845

Batchelor, J. (will) 468 "Bath" bathing-cap 747

Bath Pharmaceutical Assocn. 160, 294, 444, 711
Bath-powder perfume 868
Bath-salts 96, 343, (various) 926
Bath water, krypton in 98
Bath and West of England College of Chemistry and Pharmacy Supp. May 28
Batley Co-operative Society, Ltd. (report) 241
Batons de Pommade (Unna's) 926
Battersea Polytechnic (classes) 57
Battle's vermin-killer (at inquest) 134 Bath Pharmaceutical Assocn, 160.

134
Baxter, Sir W. J. (parl. candidate)
53, (personal) 134, 908
Bayer Co. (guaiacose) 672, (exhibit) 745, (spirosal) 895
Bayer, H. (death) 23
Beable, W. H. (bankr.) 213, 317
Bean's "Registration of Firms
Bill" 299

Bean's "R Bill" 299

Bill" 299
Beard's triple photographs 367
Beatson & Co. 963
Beatson, Clark & Co., Ltd. 963
Beekett, E. J. (death) 72, 98
Bedells, Ltd. (reg.) 248
Bee-disease 904
Beecham, T. (personal) 475, (opera scason) 805
Beecham's name, use of 834
Beecham's pills (factory, 699, (law-cases) 534, 635
Beef-extract preparing 802
marrow, purified 15

Beer-extract preparing 802
— marrow, purified 13
Beer, old recipe 311
— engine pipes, cleaning 649
Beeswax exports (Hayti) 884
— importing (O.R.C.) 245 — production (Uganda) 199
Begg, J. C. (deed of arr.) 570
Behrend, A. T. (bankr.) 900
Beiersdorf, P., & Co. (corn-plas-

ters) 573 Beisly, W. G. (conc. perfumes) 573 Beit Research Fellowships 346 Beleher (Stanley) & Mason (cx-hibit) 99

Belfast, aerated-water trade 312

Belfrast, acrated-water trade 312
Belgrave slipper bed-pan 672
Bell Bros. & Bowes, Ltd. (debentures) 72
Bell, Jacob, centenary (ed.) 360, 422, 427
Bell (John) & Croyden, Ltd. (sterilised dressings) 157, (exhibit) 672

Bell, Hills & Lucas, Ltd. (exhibit) Belladonna, alkaloidal content 216

Belladonna, alkaloidal content 216
— cultivation, effect 357, 397
— effect on skin 397
— extract, identification 824
— growing 181
— liniment, poisoning 896
— as pain-reliever 397, 439, 453
Benevelent Fund (see Pharmaceutical Society of Great Britain)
Benger's Food, Ltd. (dividend) 635
Benn. R. H. D. (death) 657
Bennett, A. E. (death) 319
Bennett, R. R. (personal) 537
Benzine explosion 69

Bennett, R. R. (personal) 537
Benzine explosion 69
— poisoning 591
— ring, orienting influence 894
— sale in small quantities 355
See also Petroleum spirit
Benzoin tincture (factors) 853, (standard) 30
Benzol-mixture 524
Berger, M. S., & Co., Ltd. (reg.) 40, (debenture) 141
Berg's gape-cure, poisoning 699
Beri-beri cause 376
Berliner, A. (exhibit) 745

Berliner, A. (exhibit) 745 Berlins, Ltd. (reg.) 661, (debentures) 843

Bermuda, examination require-ments 627 ments 627
Bertram, A. (personal) 566
Bert (Helen), Ltd (debentures) 72
Betaine mfr. 423
Betel-nut tree 627
Betts & Co., Ltd. (collapsible tubes) 156
Beverages, Kaffir 759
— West Indian 878
Richard & Paris (England), Ltd.

west include ovo Bichara de Paris (England), Ltd. (rec.) 248 Bidwell, Bidwell & Co. (silver-drawn brushes) 544

Bifocal trial set 156
Biggleston, E. R. (death) 661
"Rile-beans" not a trade-mark

Bilharzia (book on) 494

Bilisan 840

Bill-of-exchange forgery (law-cuse) 654 Bilson, F. E. (port. and biography) 612, (Council candidate) 711 Bingham Calcium Carbide Co.,

Bingham Calcium Carbide Co., Ltd. (reg.) 762 Birch hair-water 746 Bird, A. F. (parl. candidate) 35, 53, 241 Bird. Ald. F. (personal) 229, 882 "Bird on Gate" chemicals 544 Bird.lime 424

- seed (formula) 801, (sale of) 582'

- spraying solution 455
Birkenhead and Wirral Assoen. of
Pharmacists 119, 128, 294, 444,

Birmingham Association (see Mid-land Pharmaceutical Associa-tion)

Birmingham citizens 205 Birmingham General Hospital 427 Birmingham University (finances)

378, (library) 241
Births (see weekly contents)
Bishop (Alfred), Ltd. (prics-protection) 109 Bismuth price-speculation 47

- subnitrate (action of x-rays on)
726, (assay) 538
Bitumen (book) 274 Black's dental preps. 745

Black's dental preps. 745
Blackburn Direct Supplies, Ltd. (reg.) 914
Blackber, R. (exhibit) 745
Blackpool and Fylde Pharmacists*
Assocn. 119, 297, 367
Blackwax of Burma 200
Blackwell, Dr. Elizabeth (death)
845

845
Blanchflower, T. C. (death) 629
Blanchite Paints and Enamels,
Ltd. (dc-registered) 915
Bleaching-agents (book) 161
Blister, veterinary 64, 376
Blistering ointment (Codex) 165
"Blood-circulators" law-case 410,
467 (see also Macaura)
Blount's Medical Aid Society, Ltd.
(charge on debts) 72
Blue-hells identity of 393, 454

Blue-bells, identity of 393, 454

Blue flame, producing 375 Blythe & Co., Ltd. 283 Boa, Peter (sweet-orange peel preps.) 323

Boa, Peter (sweet-orange peel) preps.) 323
Boake, Roberts & Co., Ltd. (dividend) 433
Board of Agriculture and Fisheries 687, (Committee appointed) 941

941

BOARD OF TRADE:
Organisation (H.C. quest.) 663
Returns (Dec.) 80, (for 1909) 80,
Jan.) 254, (Feb.) 394, (March)
556, 579, (April) 738, (May) 886,
(revision) 396
Boardman, J. H. (deed of arr.) 351,

411
Bocquillon-Limousin's "Médicaments Nouveaux" 407
Bognor Crystal Aërated Waters, Ltd. (debentures) 536
Boilers, oil in 121
Boisselier's chocolate 895
Bolton Pharmaeists' Association 586, 711
Bon-Accord Fish Oil Co. (cod-liver oil factory) 100

oil factory) 100
Bonded warehouse, regulation 327
Bonheur et Fils, Ltd. (reg.) 501
Book-collecting hobby 174

Book-collecting hobby 174

- keeping (Keer on) 119, (Lees on)
158 (see also Accounts)
Books, old (Maskew on) 174

- are indexed under authors and
subjects
Boorne, J. (will) 449
Boot, Sir J. (presentation) SuppJan. 29, (personal) 354, 654
Boots Cash Chemists (Eastern),
1.td. (position) 50, (dividend) 843,
(meeting) 880
Boots Cash Chemists (Northern),

(meeting) 880
Botts Cash Chemists (Northern),
Ltd. (reg.) 812
Boots, Ltd. (eatlogue distribution) 3, (Sheffield dinner) 66,
(Southend) 133, (L'pool) 204,
284, (branches) 216, 240, 949, 435,
(burglarv) 278, (Hoylake) 312,
(Tonbridge) 351, (Athletic Club)
654, (Middlesbrough) 673, (Edinburgh) 656, (Scotland) 689, 704,
753, (Dewshury) 695, (Halifax) 753, (Dewshurv) 695, (Halifax) 836, (London Hospital donation) 836, (branches) 954

British Medical Association (Ran-

British Oxygen Co., Ltd. (exhibit)

British Pharmaceutical Codex criticised) 364, 686
British Pharmaceutical Confer-ENCE (executive committee) 557,

(programme) 600, (delegates 707, (Portsmouth invitation) 711

766. (dispensing congress) 791, (ed.) 819, 849, 919, (circular) 920, 930, (paper) 941. (letters) 967, (see also Cambridge)

Essential-oil monographs 257, 272, 372

Revision 257
As standard 478, (Parry on) 512, (Robinson on) 559, (letters) 592, (Dott on) 676, 701, 720, 753, 798, 832, 865, 885, (Gadd on) 888 British Radium Corporation, Ltd. (debentures) 141, 501, 763

British Radium Institute 836 British Seamless Rubber Co., Ltd.

- trade, see Board of Trade
Bromide Convention 897
- paper, green tones 771
- printing, rapid method 473
Bromoil printing-process 331
Bromural 166
Bronnley, H., & Co., Ltd. (inset)
142, (exhibit) 698
Bronze-powder, how made 366
Brooke, W. (Leeds), Ltd. (reg.)
570

570 Brooks, C. (new premises) 571 Brotherton, E. A. (portrait) 53 Brown, G. (personal) 735, (examination) 744

Brown, H. W. G. (bankr.) 282, 351 Brown, Prof. J. C. (death and port.) 434, (appreciation) 483,

Brucine reaction with nitrio acid

Brunet, E. (sequestered) 839, 873,

itish Optical (exams.) 808, 888

BRITISH PHARMACOPEIA:

Committee 815

Report 855 Revision 257

(struck off) 812 trade, see Board of Trade

(will) 916

British

goon branch) 431, (dispensing conference) 819, 919, 930

June 25, 1910 Boothroyd, W. (death) 468 Bootnroyd, W. (death) 408
Borates, exports (Peru) 794
Borax Consolidated, Ltd. (dividend) 213, (report) 283
Bordeaux mixture (Salmon on) 149, (investigation) 259, (preventing incitive feach) 269 (investigation) 2 injury from) 928 Boric-acid outment (Ph. Hung.) 18, (notes on) 447, (Dunlop on) Boroglyceride 801 Boron Products Co., Ltd. (windingup) 570 Boro-salicylate powder 926 Borwick, G. O. (parl. candidate) Botanical research 147 Botany, books on 24, 274, 407, (agricultural) 926 (agricultural) 926
— historical (book) 481
Bottle-caps, objected to 163
Bottle mfrs. combine 615, 654
Boundary Chemical Co., Ltd. (de-Boundary Chemical Co., Ed. (uc-benture) 915 Bourjois Java powder 848 Bournemouth Pharmaceutical As-sociation 158, Supp. Mch. 5, 483, Bovril, Ltd. (Hull depôt) 250, (divi-Bowri, Ltd. (Hull depot) 250, (divi-dend) 283, (meeting) 318, (pic-ture bonus) 414, (attempted fraud) 654, 941 Bowels, discases (book) 926 Bow's liniment (formula) 517. (sale of) 518, (as trade-mark) 207, 423, Bowes, F. H. (death) 653, 661 Bowman's (Warrington), Ltd. (debenture) 696
Box, W. H. (exhibit) 745
Boyce, Sir R. (lecture) 69 Bradford Chemists' Association 86, 158, 260, 330, 406, 516, 743, 825 Bradley & Bliss, Ltd. (mortgage) Brager & Co., Ltd. (debentures) Braithwaite, H., & Co., Ltd. (laboratory-plant) 156
Bramwell, E., & Son, Ltd. (reg.) Branch shops, views on 149 Brand & Co., Ltd. (exhibits) 672, 745, 765 Brandt & Simon, Ltd. (reg.) 535 Brass lacquer 684
Bratby & Hinehliffe, Ltd. (debentures satisfied) 501 Brawn-seasoning 96 Breach, G. (death) 814
Brewster, W. (death) 9, (will) 384
Breyer, M. H., & Co., Ltd. (creditors' meeting) 501 Bricks, oil of 32 Bridge, W. H., Ltd. (reg.) 72 Brighton Association of Pharmacy 330, 550 330, 550
"Brighton" sponge-bags 747
Brights (Walter), Ltd. (reg.) 248
Brilliantine, unseparable 376
"Brimstone and treacle" retailing 492
Bristol Pharmaceutical Association 405 Britannie Laboratories, Ltd. (reg.) British American Cotton Oil Co., Ltd. (winding-up) 213
British Associatiou 572, 597
British Brush Manufac
Association 298 Manufacturers' BRITISH COLUMBIA: Examination requirements 626 Pharm. Association 657, 809 British Dental Association (sued British Bental Association (suca for libel) 879
British Diamalt Co. (exhibit) 827
British Drug Houses, Ltd. (pill-list) 42, 48, (Napoleon's pills) 94, (c.l.o. emulsion) 250, (pure chemicals) 544, (cricket dinner) 637, (telegraphic address) 697, (exhibit) 745 British Glass Mfg. Co., Ltd. (reg.) British Guiana: Dentists' Ordinance 246

913
Brunner, J. F. L. (parl. candidate)
53, (portrait) 55, (personal) 662
Brunner, Sir J. T. (personal) 378
Brunuer, Mond & Co., Ltd. (inset)
142, (dividend) 732, (exhibit)
765, (meeting) 812
Brunotte, C. (death) 808
Brussels Exhibitiou 660, 700, (caution) 866
Brusson Jeune, Etablissements Brusson Jeune, Etablissements (gluten bread) 697 Bryant, R. W. (death) 283 Buchanan, Dr. G. G. (personal) Buchanan, M., on history of drugs Buchu leaves, importation (U.S.) -- searcity (ed.) 703 - varieties 358 idget (see Finance Act and Spirit-duty increase) Buenos Ayres Exhibition Supp.

Jan. 1, 70

— Medical Congress 786 Buffo moustache-fixer 628 Bug-pest, remedy 382 Bulgaria, trade of 196 Bulcaria, trade of 196
Bulcarian Sour Milk Co., Ltd.
(rez.) 570
Bullock, J. W. (death) 9, (will) 214
"Bungo" sulphur 931
Bunion, treatment of 800
Burgoyne, Burbidees & Co. (factory additions) 204
Burman wax 200
Burmol 657
Burnett, J. (co-option) 574, 735
Burnett's vinegar (law-case) 908
Burns, treatment 280
Burrough, Jas., Ltd. (calendar) 156 Burroughs Wellcome & Co. (vaporole inhaler) 42, (staff party) 52, (exhibit) 103, (thyroid tabs.) 109. (American factory) 133, (medicinal plants) 180, (hospitals) Examination requirements 627 British La Toja Co. (exhibit) 745 British Liquozone Co., Ltd. (winding-up) 248 133, (medicinal plants) 180, (hospital contribution) 240, (club ball) 262. (L'pool exhibition) 378, (medicine chest) 415, (exhibit) 431, (exhibit) 436, British Lysoform Co., Ltd. (winding-up) 248
British Machine Bottle Co. (liquidation) 243

(carnival dress) 544, (carnival dress) 544, cexhanti 575, (Lodal tabs.) 628, (New York branch) 628, (avintor's case) 697, (exhibit) 765, (South Pole expedition equipment) 815, (tuberculins) 895, (exhibit) 967, (culture media) 917, (craden-party) 962, (vaccines) 965 Bush, W. J., & Co., Ltd. (inset) 142, (report) 732, (meeting) 765 Business axion (anecdete) 785 Business and seals of cullection Business eards, sale of collection - methods (books) 562 Butchell, M. van (note on) 507 Butcher, V., & Sons, Ltd. (exhibit) 575, 745 Butler, Dr. W. (note on) 767 Butler & Tanner (inset) 142 Butler (Theodore), ("Eclipse" weigher) 414 Ltd. Butter-scotch 455
Buvo, Ltd. (winding-up) 72
Buvo tablets, composition 912
Buying a business (French advice) - clubs 584 Cadas, Ltd. (alterations) 240, (debentures) 443 Cadbury Bros., Ltd. (cocon duty) 201, 269, (supply toothpaste) 241, (pension scheme) 496, (exhibit) Cade oil, characters 151 - bath 926 -- bath 926
-- pomade 926
Caergwrle Wells Natural Mineralwater Co., Ltd. (receiver) 696
Cajuput oil (characters) 151. (Cowley on) 832, (standards) 341, 421, 477, 491 Calabar beans, exports 200 Calamine adulteration 110 -and starch lotion (disp. note) Calcium carbide (mfrs.' tion) 199, (preserving)
(Italy) 192 - chloride as dust-preventer 762 —— in mixture (dispensing) 683 — nitrate mfr. (New Zealand) Calculations, chemical (book) 816 Calcutta, cut prices 500 Calendars, chemists' 11, 57, 215, 245 Calico-printing, fastness of colours Calorimetry (Huntly on) 901
Calor agency 74, 143
Calves, ailments of 123
— secur-powder 904 - scour-powder 904
Calving, medicines for 14
Caubridge Botanie Gardens 769
Cambridge Science Schools
(botany) 770, (chemistry) 770,
(Cavendish laboratory) 771,
(medical school) 771
Cambridge University (oricin) 768,
(professors) 768, (buildings) 769,
(science schools) 770, (colleges)
889, (first chemical laboratory)
891 891
Cameras, Ltd. (winding-up) 820
Cameras, hire-charges 494
Cameron, Sir Class. (personal) 908
Cameron, W. R., Ltd. (receiver) 763
Cameron's "Radio-activity" (review) 641 Campbell, D. (death) 571, (will) Camphor, artificial (see synthetic infra) eream 85
— cultivation (experiments) 93,
(Formosa) 149, (Ceylon) Supp. June 11 June 11

— distinguishing natural and artificial 328
— exhibit 765
— exports (Japan) 556
— poisoning Supp. Feb. 12
— rate of volatilisation Supp. May

- synthetic (French company) 351, 861, (objection) 393, (price) 673 Camphorated oil, analyst on 528 — poisoning Supp. Feb. 5 — sale of 647 — testing 296 Campkin, A. S. (personal) 767 Camwal, Ltd. (exhibit) 745 Catalogues, duty on 366 dend) 812

cexhining 1 Canada (cont.): Customs regulations 120 Examination requirements 626 German tariff agreement 363 Pharmacy in 764 Pharmacy in 764
Proprietary Articles Assocn, 382
Tariff agreement twith Germany)
565, (with U.S.) 551
See also British Columbia,
North-West Territories, Ontario, and Quebee
Canadian Formulary recipes 85
Canaries, spraying for show-purposes 454
Canary seed, cultivation 243 anary seed, cultivation 343 Cancer, increase of 817 — research grants 346 - treatment (by heat) 530, (book) Candelilla war 234 Candelilla war 234 Cannizzaro, Prof. S. (death) 734 Cannon, H. H. (presentation) 485 Care Colony: Chemists registered 245, 314, 759. Examination requirements 627 Indian trading in 760 Northern Districts Chemists' Association 430 Pharmacy Board 430, 839, 874, 944 Proprietary medicines tax 5, 38, 70, 102, 314, 727, 839 — prosecutions 245, 567, 759, 209 Cape Town, nationalities iu 760 Capsulos, filling 163
Capsuloid Proprietaries, Ltd.
(struck-off) 953 Caraway oil, standards 398, 477, Car-ma-me toilet specialities 353, Carbohydrates, Armstrong's book Carbolic-acid accident 669 — antidote 560 —— cause of crystallisation 800 - iodine and cocaine throat-paint (dispensing) 492 - in lemonade (law-case) 312 Ountment (separation) 95, (Dunlop on) 675 (Dunlop on) 675
— poisoning 162, Supp. Feb. 26,
Supp. Feb. 5, Supp. Feb. 12, 286,
Supp. Mch. 5, 500, 552, 591, 678,
792, 840, 896, 936, 944,
— sale of (U.S.) 7, 137, 383,
(preps.) 511, 517 tooth powder basis 493 Carbolineum Avenarius 649
Carbolised resin 52
— wheat-dressing 306 Carbon dioxide as eaustie, 226, 583, — monosulphide 357
Carbonyls, metallic 471
1-Carbonyl-6-acetamino-pbenyl-3-ar-onic acid 84
Card-index (advantages) 31, 172
Cardamoms, Ceylon crop 521
Cardell, J. M. H. (death) 536
Cardiff Pharmaceutical Assocn. 158, 228, 331, 516
Carew, H. K., & Co., Ltd. (regist.) 107, (debenture) 248
Carlisle Chemists' Assocn. 444, 635
Carna Mfg. Co. (exhibit) 745, (reg.) 762
Carnauba wax exports (Ceara) 888 - monosulphide 357 Grint Mig. Co. (exhibit) 7-9, (reg.) 762
Carnauba wax exports (Ceara) 888
Carnot's potassium test 308
Carnick's liq. peptonoids (spirit in) 561
Carr. A. M. (death) 214
Carteighte, M. (personal) 79, (port.) 6.5, (personal) 791, (death and port.) 851 (appreciation) 851, 856, (funeral) 858, (eartoons) 883, (appreciation) 870, 885, 901, 917, 960, (will) 962
Carter, J. (death) 72
Carter Medicine Co. ("little liverpills"), 374
Cartwright, W. B., Ltd. (ailment name tablets) 469
Carvino 672 Carvino 672 Carvino 672
Caseara sacrada, liquid extract
(Ph. Hung.) 18
— price in 1909 27
— Tocher on 260
Casein, Ltd. (exhibit) 526, (Phosphova) 672, (exhibit) 745
Casein exports (Tonnay-Charente)
918 Cassell Cvanide Co., Ltd. (divi-

Canada:

68 Cassia exports (China) 192
— oil, (Turkish) 127, (factors) 59
Castle Tablet Co., Ltd. (reg.) 535
Castner-Kellner Alkali Co. (buy land) 527 ('astor oil, aromatic, 524 seed cultivation (Sudan) 200 Castorets 628 Castration ointment for lambs 594 Cat, bruise treatment 561 Cat, bruise treatment 561
—ear canker 130
Catalogues duty (Canada) 366
Catesby's, Ltd. (reg.) 843
Catgut, sterilising process 827
Catha edulis, use of 759
Cathleters, sterilising 784
Cattle, big-gall in 456
—condiment 802 -- dishorner 684 - lice on 456 — newders, sale of (Austria) 393 Caudery, W., & Co. (bankr.) 106, 213, 248, 432, 634 213, 248, 432, 634
Caudery estate (law-case) 632
Caustic-soda impurities, effect 225
Cave, H. W. (death) 354
Cavendish, reference to 386
Caventou's pharmacy sold 69
Celandine 559, 577, 647
Celluloine, Ltd. (reg.) 661
Celluloid, how made 594
— solvent 761
Cement, acid-proof 827
Census-paper printing (Pears' Census-paper printing offer) 526 offer) 526
Census of Production (preliminary tables) 98, (drug aud chemical trades) 740, 773, 775
Cephalic snuff 517
Cera Co., Ltd. (winding-up) 812
Cerebos, Ltd. (report) 141
Certificates of qualification (when needed) 649, (shop-inspection) 911, 968
Cethal 506
Cethal 506 ('ETLON: Medical Aid Ordinance Supp. May 14 May 14
Pharmacies 721
Chambers of Commerce (see under names of cities)
Chambelon 0il Co., Ltd. (reg.) 72, (liquidation) 107
Champele oil 13, (standard) 372, 398, 421, 477
Champaca oil 900
Chancellor, H. G. (personal) 137
Chandler, Prof. C. F. (retires) 383, 567 Charabot's "Parfum ohez Plante" 820 Charcoal, ash limit 109 Charles & Co., Ltd. (reg.) 535, (debentures) 696
Charlton, T. D. (bankr.) 690, 760
Chartreuse, imitation 32
--trade-mark (law-case) 466
Chater, E. M. (will) 12, (bequest) 44
Chave, W. F. (will) 384
Cheese-starter 802
Cheltenham aperient water 156
Cheltenham Chemists' Assocn. 225,
366, (botany prize) 550, 711, 859
Chemical analysis (Clowes and Coleman's) 782
— apparatus, new (book) 926
— calculations (book) 816
— education in Germany 567
— engineering (books) 96 -- engineering (books) 96 Chemical Engineering, Chemical Engineering, Ltd. (winding-up) 953
Chemical formulæ, abuse of 824
"Chemical News" jubilee 83
"Chemical Razor-Sharpener, Ltd. (reg.) 635 (reg.) 635
Chemical Society 150, 259, Supp. Feb. 26, 386, (annual meeting) 471, 670, 742, 846, 893, 960
Chemical structure, relation to physiological action 485
Chemicals, exports (U.K.) 82
... mfr. in Germany 416
... by tudants 62

238, 270, 306, 344, 376, 424, 456, 494, 524, 562, 577, 594, 650, 684, 722, 754, 802, 834, 868, 904, 938, 722, 754, 958, 968 Use of Phœnix mark 833 Winter Issue 217, 243, 253
"Chemist and Druggist of Australasia" (exhibit) 749 tralasia" (exhibit) 749 Chemist-optician, evolution 473 Chemist slandered (law-case) 38 Chemists and druggists, number of 722 Chemists as public men 35, 67, 73, 100, 133, 134, 206, 229, 243, 250, 276, 278, 284, 322, 347, 348, 354, 378, 385, 427, 435, 459, 460, 469, 483, 496, 497, 503, 526, 529, 537, 564, 565, 572, 629, 662, 687, 688, 698, 784, 815, 838, 847, 848, 872, 882, 908, 917, 962
Chemists, "Times" on 292
— business, modernising 195
Chemists' assistants, see Assistants and Apprentices 477, 431 Cirengol 573 Citol 575 --- sources 22 ---- tests 363 and Apprentices and Apprentices
Chemists' Assistants' Association,
56, 120, 159, 227, 260, 295, 331,
405, 445, 484, 550, 635, 677, 711,
930, 961
Chemists' ball 120
Chemists' Defence Association, tative) 68 Ltd. 229, 826 CHEMISTS' AND DRUGGISTS' DIARY: CHEMISTS' AND DRUGGISTS' DIARY:
Aphorisms and epigrams 620, 785
Appreciations 15, 31, 47, Supp.
Feb. 5, 268, 482, 800
Competition 182, 190, 231, (resuit) 620
Demand for 203
Chemists' and druggists' goods, Demand for 203 Chemists' and druggists' goods, sale by other traders 359 Chemists' and Druggists' Society of Ireland 355, 444, 743, 838, 930 Chemists' Exhibition 698, 745 "Chemists' sundries," use of ex-pression by unqualified person Chemistry, analytical (book) 641 — books on 96, 274, 641, 782 — history 294 — industrial (books) 96 — inorganic (book) 816 — for matriculation (book) 274 - for matriculation (book) 274
- organic (book) 274
- and pharmacy relationship 446
- playsical (book) 782
- practical (book) 782
Cheque fraud 67, 242, 243
- post-dated (legality) 968
Chesebrough Mfg. Co. (vascline adv.) 76, (hard vascline) 353
Chilblains, salt cures 95
- treatment 69
Child-labour. Committee suggested Child-labour, Committee suggested Children's diseases (book) 926 Children's diseases (1906), 320—eyesight (see School-children)
Chimney-fires, remedy wanted 237
Chinosol Hygienic Co., Ltd. (exhibit) 672 Chiropody (books) 238 Chloasma, treatment 64 Chloral-hydrate poisoning 749 Chloretone gauze 157 Chlorine and sodium carbonate, reaction 458 Chlorodyne habit (law-case) 430 Chlorodyne habit (law-case) 430
— poisoning 552
— supply, responsibility 430, 463
Chloroform habit 277
— Ph.G. monograph 401
— poisoning 162, Supp. Feb. 12, 277, 438, 552, (treatment) 640
Chocolate elixir 827
Cholera-prevention mission 566
Christmas experiences 30
— festivities, effect 35
— trade 3 402, 583 - restivities, effect 55
- trade 3
Christy, T., & Co., Ltd. (Young's absorbine) 42, ("Pino" hand kerchiefs) 74, (list) 109, (Klebon) 215, (holidays) 469, (cirengol) 573, (exhibit) 746, (elosing hours) 848 Chrysarobin stick pomade 926 Churchill, J. & A. (list) 109 Chuto condiment 827 Cruto condiment 827
Cinchona assay process 144
— auctions (Briegleb's report) 234
— early use of 768
— Howard on 636
— and iron wine 855
— Java combine suggested 49, 93, 494 — plantations (Java) report 371 — position in Java 49 — price in 1909 26

Cinchona report 127
— statistics (Bochringer's) 93,
(Holland) 773 Syndicate (Java) 146 treat 118 - standards 327, 341, 372, 398. 466 Citrol 573
Citrates, testing for 132
Citric acid, Puseh's test 324, 583
— works (Syracuse) 351
Citronella oil, characters 151
— exports (Ceylon) 340, 900
— "London test" 794 915, 953 Citrus products (W. Indian) 200, (Sicilian) 234, 340 Clapp, R. J. (murder) 560 Clark, E. A. (personal) 918 Clayton Bottling Co., Ltd. (debenture) 318 Clayton & Jowett, Ltd. (represen-Clay-working patent (law-case) 39 Cleaning (book) 782 Cleanso Mfg. Co., Ltd. (reg.) 634 Cleasby, W. H. (death) 697 Cleghorn & Darroll's pharmacy 611 Clevon, Ltd. (reg.) 955 Cliffe Soap Co. Ltd. (liquidation) "Clifton" bathing-cap 747 Clinical thermometers, shaking down 895 —— standardising 903, 936 Cloth, waterproofing 456 Clothes as bearers of infection 354 Cloudique spray 436 Clove-oil standards 328, 341, 372, 398, 477 Clover flowers, constituents 259, 273 exports (Madagascar) Cloves, exports (Madagascar) Supp. Jan. 22 Clowes and Coleman's "Quantitative Chemical Analysis" 782
"Club Araiko" bath-powder 931 Clymene perfume 749
Coal-tar, book on 24
Coea, production (Peru) 794
Cocaine antidote 594
— effect on skin 397 - injection 52 - by post (U.S.) 810 - injections for tooth-extraction - (44
- iodine and phenol throat-paint (dispensing) 492
- as pain-reliever 397, 439, 453
- poisoning 378, 384, 482, 500
- purity ("Dental Surgeon" on)
919 - sale (U.S.) 7, 761
- smuggling (India) Supp. June 11
Cockburn & Co., Ltd. (outing) 894
Cocoa, analysis scheme 523 (reg.) 40 Cocon, analysis scheme 323 Coconut essence 801 Cod-fisheries (scientific study) 666, (ended) 933 Cod-liver-oil emulsion 52, (Ph.G.) Coffin's composition-powder 493 Cold, to abort 404 Cold-cream 581 (water ointment) (see also Rose-— in the head, treatment 813, 834 Coleman & Co., Ltd. (Wincarnis showeard) 157, (dividend) 433, showcard) 157, (dividend) 433, (exhibit) 672, 836
Colitis, books on 32
Collins, J. H. (bankr.) 140
Collins, Sir W. J. (parl. candidate) 53
Collins, W. S. (will) 670
Collodion plates, difficulty 771
Colman, J. & J., Ltd. (exhibit) 765
Colocynth, constituents of (Power and Moore) 150
— exports (Almeria) 192
Colour-blindness (lecture) 262, 473 Corner) Colour-blindness (lecture) 262, 473 — lecture on 445 - photography, paper on 260 - theory 386 vi

June 25, 1910 Colson, Prof. (on ammonia-soda) 257 Comain 167 Combined toning and fixing 575 Commercial Travellers' Bencfi's Society 427, 460, 498 Commercial travellers, how to - guarantee (law-case) 945
- licences (see name of country)
- luggage (law-case) 631
- toast 335 Commission by agents (law-case) "Compact" folding Etna 156 Companies (Consolidation) Act, 1908, Reid's "Reminders" 299 — removed from register 352, 412, Gompany-pharmacy (in U.S.) 39, 383, 465. 552

— and competition 40, 49, 94, (Russell on) 701

See also Poisons and Pharmacy Competition, by companies, 40, 49, Composition-powder in burglary 276
—— Coffin's 493
Compton, J. R., & Bros., Ltd.
(inset) 142 Condition-powder for horses 524 868
"Cone" vaginal syringe 215
Conium (see Hemlock)
Connor, Dr. G. W. (personal) 942
Consol Automatic Aërators, Ltd.
(syphon depreciation) 683, (exhibit) 746 Conspiracy law (Blake-Odgers on) Constipation, book on 24
— treatment 548
Consumption (see Tuberculosis)
Contract law, inquiry 800 - stamp, amount 32 - validity of 202 Contracts (see weekly contents, also Guardians and drug-supply) Conway, W., & Sons, Ltd. (seeds) Cook, Y., & Sons, Id. (seeds) 156
Cook, Edw., & Co., Ltd. (disinfectant standardisation) 63, (Big-men soap) 74, ("Cofectant" approved) 215, (report) 433, (meeting) 467 Cook, J. (death) 661 Cook, S. (personal) 284 Cooke's "Mellificium Chirurgia" Cooking (book on) 161 Cooper, R. A. (parliamentary candidate) 11, 54, (portrait) 55, (personal) 378
Cooper, W., & Sons, Ltd. (reg.) Co-operation in pharmacy (Parry on) 296
— scheme (Washington) 810
Co-operative Medical Stores, Ltd. - proprietaries (see Proprietary articles)
- societies' reports 276, 566, 598, 655, 689, 808, 907 655, 689, 808, 907
Copaiba exports (Maracaibo) 234
— and liq. potass. mixture (dispensing) 518
— oil (African) investigation 22 — standards 341, 399, 421, 477, 491 Copaquire Copper Sulphate Co., Ltd. (debentures) 696 Copper citrate, purity 824 sulphate, imports (Bordeaux) 956
Copying graph 270
Corder, O. (death) 43, (appreciation) 73, 223, (will) 320 Coriander oil standards 341, 399, Corn-cure. cannabis ext. in 270 — salve 867 — solvent fatality 3 Corner for Students (see Students* Cornwall Tailings Co., Ltd. (reg.) Coroner (on prop. meds.) 206, (on risk of prescribing) 528 Coroners' etc. Bill 882, 958 — Committee 336, 578, 663 Corrosive sublimate (see Mercury perchloride) Corry & Co., Ltd. (list) 320 Cory, C. (death) 134, 249 Cosmetio lotion 926 "Cosmetics," Joseph's (review) 274
Cotargent 157
Cotarine, synthesis 893
Cotton, soda-boil research 225
Cottonseed oil, price 113
Cough mixture, coroner on 3
Coumarin, chemistry of 950
Counter orders (see Orocurious) Orders. Counter-prescribing (Gilmonr on)
118, (discussion) 260, (see also
Prescribing chemists) Counter-surgery, risks of 15
"County" chocolate 895
County Court cases (see Legal reports, general)
-— commitments (Rentoul on) 98

— commitments (Incited on) 98
— jurisdiction 945
County Mineral Water Co., Ltd. (liquidation) 40
Conrtenay, T. W. (death) 319
Courvoisier's perfumery 142
Cowley, R. C. (personal) 62, 962
Concelegation medicines 14.

Cows' calving, medicines 14 — lumps on neck 561 - lumps on neck 561
- milk, abnormal, remedies 14
Cox, A. H., & Co., Ltd. (massogran) 42, (massolettes) 215, (Scots representative) 498, (gluerin lozenges) 573, (lactic ferments) 672, (exhibit) 698, 746, (Glasgow representative) 907
Cox, H. W., fund 66, 98, 133, 204, 240, 587, (H.C. quest.) 437
('rane, J. (note on) 767
('ream as c.l.o. substitute 836
''Cream of Magnesia'' as title 593

593 methods of thickening 836

Cream of tartar, lead in 655 Cremation (book) 274 Cremation (book) 274
Crembas in skin-creams 639
Creosote-poisoning, Supp. Feb. 5
-- what is? 47
'Crescent' soda 142
Cresswell Bros., Ltd. (Redio polishing-cloths) 697, (exhibit) 746

Cribb & Bentley, Ltd. (debenture)

Crinon's "Revue des Méd. Nouveaux" 481
Cripps, C. (death) 319
Crittenton, C. N. (bequests to assistants) 7
Croft (George) Ltd. (reg.) 318
"Cromer" sponge-bags 747
Crookes, Sir W. (personal) 83
Crosfield, A. H. (parl. caudidate) 54
Crosfield, J. & Song and Company of the Compa

Crosfield, J., & Sons, 1td. (explosion) 204

Cross, A. (parl. candidate) 54 Cross, E. (death) 661 Crossley, Prof. A. W. (appoint-Crossley, P ment) 204

Crotalin 506 Croydon Pharmaeists' Association

407, 516, 963
"Crystal" brand glycerin 628
"Crystal Palace" markingmarking ink Crystal-structure, chemical signifi-

cance 638 Cubeb-oil standards 341, 399, 477,

Cullingford, F. R., Ltd. (deben-

ture) 763
Cullwick, H. E. (dental work) 285
Cunliffe's "Weights and
Measures" 52

Curacho, Ltd. (reg.) 812 Curb blister 64 Curdled milk (see Soured milk) Curdlettes 414, 746

Curie, bust of 689

— Mme., portrait 369

Curriculum, compulsory 618, 621,

Currie (John), Ltd. (reg.) 40 Currie, W. L. (port. and biography) 612, (Council candidate) Currie,

Custard-ices 375 Customers, how to treat 117 Customs Act cases (see Legal reports, Customs Act) Customs and Excise Commissioner

Cutting prices (sec Price protection and Proprietary Articles Trade Association)

Cyanamides, mfr. of, 404 Cyanogenetic glucosides, detecting

Cycle enamels 904 Cyllin soft-soap 945 Cyprus, drug-imports 192

"DAINTY" SEIDLITZ BOXES 748
Daisy, Ltd. (election posters) 76, (exhibit) 746, (Daisyfoam samples, 813

Dale's plaster (requires stamping) Dallmeyer, J. H., Ltd. (exhibit)

Damard Lacquer Co., Ltd. (reg.)

501
Dammara resin, nses 938
"Dan" Patent Crown Cork Syndicate, Ltd. (reg.) 696
Daniel, R. (death) 536
Danval (ex-convict) 910
Danysz Virus, Ltd. (exhibit) 746
Darier's lotion 926
Darton, F., & Co. (optical list) 285, (eye.glasses) 609
Datura-poisoning case 349
Davidge's "Optical Instruments" 782

Davidson, J. A., Ltd. (reg.) 213 Davidson, J. L. (death) 697 Davies, A. R. (presentation) 699 Davies, D. H. (will) 43 Davies, J. H. (will) 45 Davies, J. T. (death) 961 Davies, J. T. (death) 249 Davies & Co. (Burton Salmon), Ltd. (reg.) 762

Davies, Sons & Co. (effervescents)

848
Davis, R. H. (portrait) 322
Davy Hill & Hodgkinsons, Ltd. (winding-up) 72 (see also British Drug Honses, Ltd.)
Dawes-White, J. A. (bankr.) 695, 842

842
Day, E. W. G. (death) 43, (will) 537
Days of the week, Latin names,
Supp. Mch. 19, 475, 522, 523, 560
"De Luxe" toilet-cases 747

Deans, Logan & Co., Ltd. (Sedna wine) 628

Death certificate (forging charge) 565, 725 Death Certification Act, amendment wanted 687

— how caused 446 Deba 167 Debentures, inquiry 343

Debentures, inquiry 343
—of trading companies (book) 782
Debt recovery 268, 423, 834
"Deer" toilet-powder 931
Degen, F. A. (adv. booklet) 848
Delirium tremens, treatment 123 DEMERARA:

Dispensary scheme 809
Pharmacy and Poisons Ordinance 809

Veterinary Ordinance 37 Dempsey, M. (personal) 67 Denoual, Jules, & Co. (holidays) 469 Densuris 672

Dental anæsthesia (book) 782 (ethyl-chloride) 802, (ether) 252 — anæsthetic, solutions 52, 640 650

- atomiser 152 "Dental Institute" as place name

649
Dental Mfg. Co., Ltd. (debentures)
763, 843, 915
— materia medica (book) 24, 481
"Dental Register" 442
Sec also Teeth and Tooth
Denticure Co., Ltd. (reg.) 141
Dentifrice, liquid 270 (sec also
tooth powder)
Dentist, qualification of 129
Dentistry free to French M.P.s 683
— philanthropic scheme 564
— unqualified (Glasgow metion)

- unqualified (Glasgow motion) 313

- use of anæstheties by 276, 336,

744
DENTISTS ACT:
Appeal case (result) 724. /effect)
923, (MacAlister on) 815
"Dentistry." use of word 903,
923, 937, 955
"Expert adapter of teeth" (law-case) 103, 210
Inquiries 423, 754
"Painless extraction" (H.L.

appeal ease) 631, (effect) 923

Dentists Act (cont.) : Prosecutions (see Legal reports, Dentists Act)

Dentists Act)
Specially qualified " (H.L. appeal) 631, (effect) 923, 937, 955 Depilatory, non-irritating 438 (see

Depilatory, non-irritating 498 (see also Superfluous hairs)
Derby Chemists' Assocn. 331
Detchon, T. (death) 249, (will) 384
Detergents, commercial 786
Developer (ferrotype) 413, (metol)
413, (hydroquinone) 424, (for bromides) 475, (metol-quinol) 684
Developers, advertising Supp.

May 28 Development, hints on 367

Devonshire oils 561 Dewsbury Pharmacists' A tion 86, 260, 406, 550, 712 Di-ethyl-barbituric acid 167

Diabetes, sesame emulsion for 482 Diabetic milk 938 Diachylon-poisoning Supp. Feb. 12 Diagnosis, medical (book) 816 Diamidophenol contract case 39, 94 Diamine trade-mark case 432, 694,

"Diamond" tooth powder 931 Diamonds (book on) 24 Dianol 167

Dianthine 494 Dianthine 494
Diaphanite 167
Diary (see "Chemists" and Druggists" Diary")
Diascordium 5, 47
Diazellose 167

Diazellose 167
Dieamphoryl-arsinie acid 84
Diek & Parker, Ltd. (reg.) 812
Dieteties (book on) 161 (see also Foods)
"Diffuser" covered sponges 672
Digistrophan 907
Distribute convince 181

Digitalis-growing 181
-- testing 144, 922, 95 - tineture, standardising 193 Dill-oil standards 341, 372, 398, 477,

Dimethyl - amino - phenyl - arsonic acid 84 Dinwoodie, J. H. (illness) 908 Dion, Ltd. (reg.) 467, (debentures)

Dioxydiamido-arsenobenzol 705 Dipsomania (see Inebriety)
Direct trading by mfrs.

Directory, chemical trades 274 Diseases of Animals Act (book on)

687 Dishorner for cattle 684

Disinfectants, book 270
— price of 205
— standardisation 15. (protest) 42.
(Cook on) 63, (Maryland Bill)

Dispatch Carrier Co. (exhibit) 746 Dispensaries, abuse (Demerara) 37 Dispensary (Penang), Ltd. (reg.) 661

Dispensers, Morris on 397

naval 801

regulations for (A. and N.

- regulations for (A. and A. Stores) 184
- holiday 598
Dispensers' appointments 100, 378, 428, 564, 566, 878, 878, 943
- salaries 11, 496

Dispensing agreement (Penang) - charges (see prices infra)

- for clubs (S. Austr.) 498 - complaint regarding 50 - doctors (letters) 727, 849, 923 - error 35, 50, (damages for)

-errors 35, 50. (Wigan) 240, (Pre-

hints on 163 - notes are indexed under the sub-

prices 422

n public institutions (McVail on) 311 regulation (Italy) 502

testing 17 Distemper in dogs, preventing 801 Distemper, washable 650 Distilled-water still 684

Dittany, old uses 5. 47 Divina (toilet powder) 743, (per fume) 917

Dixon, H. (death) 214, (will) 916 Dixon, Prof. H. B. (portrait) 472 Dixon, Prof. W. E. (on action of drugs) 446 drugs) 446
Doan's pills, profit on 648
Dobson, G. W. (death) 72
Dockray, J. E. (will) 670
Doctor and pharmacist, co-operation necessary 118 Dodd, W. H. (death) 661 Dog-poisoning claim 243 Dogs, bronchial distemper 455

Dogs, bronchial distemper 455
— convulsions 867, 905
— distemper, preventing 801
— pustular disease 238
— sprained tendon in 650
— worms in 150, 455, 801, 867
Dolbear, J. (port.) 41
Domen Belt Co., Ltd. (exhibit)

Doncaster Association of Pharmacists 677

Donovan's solution, to prevent coloration 518
"Doomo" fly-trap catches rat

673
"Dorothy" sponge-bags 747
Doses, unusual, indicating 500
Douche powder 344
Dover Mineral-water Mfg. Co.,
Ltd. (debentures) 443
Dover, re-visited 559
Downing, T. A. (deed of arr.) 433
Dowty, J. M. (port. and biography)
612

Doyen's mycolysine 943

Dralle, G. (exhibit) 746
Dresden Hygiene Exhibition (see International Hygiene Fahibition }

Dressings (see Surgical dressings) Drink-cures (see Inebriety) Driscoll, R., & Co., Ltd. (reg.) 515 Drug-auctions, quantities offered Drug Club, 930

Drug-contracts (see weekly contents, also Guardians and drugsupply)

- deterioration, lecture 294 - deterioration, lecture 294
- habit (chemist's responsibility)
430, (Mackenzie on) 511. (Wilson
on) 529, (regulating, U.S.) 601,
615, (French action) 945
- prices in 1828 608
- standards (Parry on) 512
- statistics (see London druzstatistics)

statistics)

statistics)
Drug Stores Association Supp.
Mch. 5. (Nottingham branch)
564, 711, 894
Drug Trade Appeal Fund 34,
(annual meeting) 826
Drugs, action of 460, (Cavanazh)
507, 559
— crude, Greenish on 295
— thistorical notes 5, 159
— lecture on 225
— modern views on 446, 475
— physiological standardisation,

physiological standardisation. 193

- as poisons 460, 507, 559, 592
- quality of 31
- testing for purity 296
Drunkenness cures (see Inchricty)
Dry.mounting photographs claw-case) 350, 410

case) 350, 410° Dry-rot in wood 649 Dublin, trade of 428 Dudley & Co. (exhibit) 749 Duggan, Neel & McColm, Ltd. o'e-bentures) 213 Dulley's clinical case 895 Dun's "Veterinary Medicines"

888 888
Dunbar & Co. (trust deed) 68
Duncan, G. (nersonal) 838
Duncan, S. (death) 536
Duncan, Flockhart & Co.

Duncan, Flockhart & Co., tyree-list) 74, (calendar) 215, (labora-tories visited) 225 Dundee Chemists', Assistants', and Apprentices' Association 86.

Sunp. Jan. 29, 260, 330, 444, 511, 825, 962

Dundee Pharmacists' Association 516, 743, 838 Dunn Bros. & Co. (coal-far products) 628

Durstan, Prof. W. R. (personal) 195, 284, 572

195, 284, 572
Dupuvtren's nills 13
Durafort & Co., Ltd. (receiver 9
Duratol 575
Durban as manufacturing centre
567

"Durden's Pocket-book" 813 Durham, H. (dinner to) 870 Durno, A. E. (personal) 37 Duron Co., Ltd. (reg.) 248 Dutch (see Holland) Duval, C. (death) 656 Dux Chemical Solutions Co., Ltd. (reg.) 635

Dyeing and cleaning (book) 782

Dyer's Ozonic Pure Acrated Water Co., Ltd. (liquidation) 107

Dyson (Alwyne), Ltd. (mortgage)

Oyspepsia (see Indigestion)

Ealis, E. H. (personal) 2

Barly-closing (Berwick) 836,
(Brierley Hill) 871, (Broughty
Ferry) 565, (Dundee) 36, 743, 838,
(Heckmondwike) 871, (Newport)
35, 240, (Monmouthshire) 99,
Stockton-on-Tees) 427, (50 years
ago) 562, (Wigan) 653, 724, (West
Ham) 837, (Paris) 943 (see also
Shop-hours)
Barthenware solder, 594

Earthenware solder, 594
East, W. (penny stationery) 628,
(writing-paper) 813
East Aberdeenshire Pharmaeists'

Assoem. 31 "Easthourne" invalid-chair 672

"Easthourne" invalid-chair 672 Easter holidays 469 Easter holidays 469 East de Cologne importing (Australia) 498 Eberle, E. G. (personal) 358, (por-trait) 367 Eboute, how made 584 Edinas waighing machine 414 importing

Eclipse weighing-machine 414
Eczema ointment 493
Edinburgh Chemists', Assistants',
and Apprentices' Association, and Apprentices' Association, 119, 225, 294, 367, 446, 517, 550, 711, 695, 930

Edinburgh Chemists' Trade Association 930, 963 Edinburgh Chemists' Golf Club

Edinburgh Pharmacy Athletic Club 445

Edinburgh University.

Edinburgh University, degrees 529 Edmoe, Ltd. (exhibit) 827 Edmonds (Ramsgate) Mineral Water Co., Ltd. (debentares)

518
Edmonds, D. S. (death) 434
Edridge-Green, Dr. F. W., on
oxiour-blindness, 262
Eduardo, Ltd. (reg.) 661
Education in Germany (Barclay

OF 1 416 - xharmaceutical (Texas) 7

- progress in 79
- progress in 79
- Edward VII. (death) 726, 735, 739, (Ph. Soc. resolution) 787, 833, (French tribute) 753, (funeral) 757, 758, 791, 806, 807, 808, 813, (opsonic treatment) 820, (Ph. Soc. Ireland on) 892, (memorial)

Edwards' Harlene Co. (exhibit)

Edwards' Harlene Co. (exhibit) 599, 746, 765
Edwards, W., & Son (list) 784
Egg.yolk, artificial 827
Egglescliffe Chemical Co., Ltd. treg.) 213
Egg.s, to break 31
- colouring 494
Ekins, A. E. (personal) 813
Electric-light cable fire 871
Electricity, books on 24, 274
Electro-plating (new method) 222, (Tecture) 485
Electromerism Supp. Meh. 19

Clecture 483
Electromerism Supp. Meh. 19
Eleni off, characters 22
Eley Bros., Ltd. (metal tubes) 156
Elias Pure Rubber Process, Ltd.
(Castilloa latex coagulant) 813
Elkington, T. V. (creditors' meeting) 551, 411
Ellanbee benzoin preps. 672
Elliman's book (law-case) 841
Elliott (Philip), Ltd. (reg.) 732
Elliott & Sons, Ltd. (exhibit) 575
Ellimore, W. T., & Son, Ltd.
(**Granby "trucks) 320
Elsa Proprietary Co., Ltd. (reg.) 843
Ellwick, T. H. (bankr.) 411, 432

843
Elwick, T. H. (bankr.) 411, 432
Elwergeney medicine-case 895
Emigration, reasons for 853
Emmotland Chemical Co., Lt
(liquidation) 352, 696
Empire bouquet 749
Empire" sealing-machine 320

Emp. oxycroceum, origin 517, 518, Emulsifix, Ltd. (liquidation) 213 Emulsions, separating 121 Enamelling iron (book) 24 Enamicining fron (book) 24 Enamels for cycles 904 Engineering, chemical (books) 96 English and American Proprie-tarics, Ltd. (winding-up) 213 "English Clubs," Austen Leigh's 299

Enitone paper 575 Ensignette camera 575 Epsom salts, discovery Equinopuly, 963 Erasmic Co., Ltd. (window-displays) 414, (exhibit) 672, (competition) 697

Ergot alkaloids 151 - enzyme 357 standardising 193 Ergotoxine 167 Ernutin 167 Escaline 840

Esperanto in pharmacy 453
Essential - oil adulteration
("Xrayser" on) 289

("Xrayser" on) 289

— assay processes 271

— books 776, 782

— British Pharm. 257, (discussion) 258, (monographs) 272, 304, 341, 372, 398, 477, 491, (Bush on) 719

- imports (U.S.) 521

-- imports (U.S.) 521
-- preserving 824
-- refractive indices 178, 442
-- refractive indices 178, 442
-- standards 257, 258, 272, 364, (Halian Ph.) 327, (Evans) 341, (Naumann) 341, 372, (ed.) 398, 477, 491, 719
Essex Mfg. Co., Ltd. (reg.) 282
Estone 349
Etard, A. L. (death) 808, 910
Ether as dental anosthetic 252

Ether as dental anæsthetic 252 — drinking in Ireland 100, 460 Ethics, in shop 116, (Gilmour on)

Ethyl-chloride as local anæsthetio Ethylene dichloride as solvent

Ethylene dichloride as solvent Supp. June 4
Etiquette, in shop 116, (Gilmour on) 144
"Etna" folding 156
Eton, H. E. (portrait) 405
Eucale injection 52
Eucalyptus (Maiden's hook) 782
— standards 327, 341, 399, 421, 477, 491, (Bush on) 719
— Transval 463

— Transvaal 463 - varieties 669 — varieties 669
Eucapren 506
Eucapren 506
Eucrasy, Ltd. (reg.) 953
Eucryl, Ltd. (inset) 142, (exhibit) 698, 746
Engenies, lecture on 792
Eulatin for whooping-cough 123
Eumictin 167
Euroka Clack Co. (Paral order) 603

Eulatin for whooping-cough 123
Eumictin 167
Eureka (lock Co. (Royal order) 633
"Eureka" weed-killer 628
Evans, Sir E. (personal) 15, 435
Evans Sons Lescher & Webb, Ltd.
("Analytical Notes") 215, (list)
215, (e.l.o.) 285, (essential - oil
standards) 341, (report) 352,
(dinner) 406, (meeting) 412,
("Curdlettes") 414, (dividend)
501, (list) 628, (exhibit) 598, 746
Evans, W. P. (portrait) 407
Evatt, Surg.-Gen. G. J. H. (parl.
candidate) 54, (pension) 917
"Evercady" postal boxes 748
Everett, W., Ltd. (debentures) 443
"Every Man's Own Lawyer" 641
Ewing, J. L. (personal) 907
Examinations (Brown on) 744
(see also Education)
Executors, unqualified (inquiry)
937

Exeter Association of Pharmacists 75, 635 Exhibitions (see name of exhibi-

Explosion during experiments, 596

Explosion during experiments, 596
—protection against 742
—at Sorbonne 808
Express Developing Co. (exhibit)
698, 746
"Express" profit-reckoner 24

Extraction apparatus 786
Eyekmans, M. (portrait) 859
Eye, chambers of 23
— diseases (book) 274

- foreign matters in 562 - lecture on 444 Eyes, artificial, how made 610

FABRICS, FIREPROOFING 238 to preserve from rot 650, 868, 937

Face-lotion 926

Face-10100 9.20

— powder, liquid 868

— Unna's 9.26

Factory Act cases (see Legal reports, Factory Act)

Fullures are indexed under name

of person Fairchild, S. W. (personal) 284,

383, 784 Fairchild Bros. & Foster raifenind Bros. & Foster (new premises) 154, (exhibit) 672
Feirchild Scholarships 152, 397, Supp. Ap. 30, 714, (questions) Supp. June 25
Fairlie, H. C., & Co. Ltd. (reg.) 914

Famora trade-mark (law-ease) 841

Fareol 506 Fat, bleaching 594

Fayle, B. W. (death) 574
Fazenda coffee 827
Federation of Local Pharmaceutical Associations 557

Feeding-bottle legislation (France) 101

--- with tubes, condemned 459
Fehling's solution, equivalent 802
Fell, J. C. (death) 108, (will) 449
Feli, R. (death) 629

Feli, R. (death) 629
Felon-drinks for cattle 3C6
Fels-naptha soap, composition 561
Felt-hat reviver 493
Fennel oil, Bush on 719
— standards 400, 421, 477
Fertiman, A. G. (staff dinner) 87
Fenton, P. (presentation) 792
Feolathan 167
Ferguson, J. (death) 697
Ferguson, W. S., & Co., Ltd. (reg.)
40

Ferralbol 167 erris & Co. (club dinner) 297 Ferro-ammonium lactate 167 Ferrodur 404 Ferrotypes, developer and fixer

Ferrodar 404
Ferrotypes, developer and fixer combined 413
Fertilisers and Feeding stuffs Act:
Amendment suggested 465
Analysts fees 98
House of Lords question, 958 1nadequacy 526 Fibrolysin 166

Fiction, chemist in 178, 267, 289,

- dectors in 439
- pharmacy in 462, 577
Fields, T. W. (death) 629
Fifeshire Pharmaceutical Associa-

Fifeshire Pharmaceutical Association 445
Filtering, hint on 163
— paper on 121
Finance Bill (sale of benzine) 355, (postponed) 365, (progress) 614, (passes H. of C.) 663, (ed.) 920 (see also Spirit duty increase)
Findlater, Mackie, Todd & Co., Ltd. (St. Raphael wine) 215, (exhibit) 746
Findlaw, J. (trust deed) 498

Findlay, J. (trust deed) 498 Finland, pharmacy in 777 — trade of 902

-trade of 902
Finlay, Sir R. (on possessive-case titles) 290
Finlay's Mineral-Water, Ltd. (reg. 696
Finneran, J. (will) 908
Fire-extinguishing powder 456
Fireproofing fabrics 238
Fire-sprinkler damage 36
Fires (see English news, etc., in weekly contents)
Firm-names on poison-labels 129,

Firm-names on poison-labels 129, (appeal case) 602, 616, 665

(appeal case) 602, 616, 665

- use of 45

Firman, J. W. (death) 205

First-aid rendered by chemist 380

- cases, use of 870, 895

"First Aid" (Warwick and Thustall's) 161

Fish colours, photographing 78

Fisher, J. (death) 571

Fishing-nets, treatment of 650, 868, 937

Fishing-nets, treatment of 650, 868, 937
Fisk, F. M. (personal) 537, 882
Fitch, C. F. (personal) 187
Fitte-All "ever-lasses 609
Fittgerald, A. H. (death) 763
Fixed oils, refractive index 443
(see also name of oil)
Fixing-bath 567, (strength) 473, 562
"Flakna" specialities 827
Flash-points, determining 344
Flashing signs 609

Flavourings, synthetic (French inquiry) 910
Fletcher, F. W. (portrait) 153
Fletcher, Fletcher & Co., Ltd.
(new premises) 153, (laboratories opened) 891, 927
Flood, W. W. (death) 662
Floor-soap, antiseptic 684
Florasma 749, 917
Floyd, J. (death) 734, (will) 916
Flugel & Co. (exhibit) 739

Floyd, J. (death) 734, (will) 916 Flugel & Co. (exhibit) 749 Fluorides as food preservatives 494 Flying-machine, pharmacist vents 486

Flynn, C. (death) 497
Fontane, T. (monument) Supp.
June 18 Food and Drugs Acts (see Sale of

Food and Drugs Acts, also Legal reports)
Food inspection (book) 274
Foods, adulterated, exhibition 827
— book on 24
See also Diet

Foot-rot (powder) 344, (treatment) 306, 376 — warmers, filling 238

Ford, Shapland & Co. (exhibit)

746
Fordham, J. (death) 814
Foreign Chemical and Electrolytic Syndicate, Ltd. (struck off) 955
Forfarshire Chemists' Association 636, 825, 873
Formaldehyde, formed by light Supp. Feb. 5
- as meat-preservative (H.C. quest.) 437
- mouth-wash 456
Formalin action on skin 152

Formalin, action on skin 152
Formamint 456
Formic acid from turpentine oxidation 901

Formitrol pastilles 672 Formulas, selling in market-place

Formulsin 167

Formulsin 167
Forrest, J. (before G.M.C.) 854
Foster, H. (will) 284
Foster, Sir B. W. (parl. candidate) 54, (retires) 336
Foster, T. S. (personal) 572
Fountain pens, filling 721
Foureroy's centenary 135
Fowles, cholera in 130
Fox. C. E. (personal) 11
Fraenkel, Dr. M. (death) 734
Frame Food Co., Ltd. (exhibit) 827
FRANCE:

Adulteration Act, administering

Association Générale des Phar-maciens 808 Colonial pharmacists 599

Doctor commits murder 530 Foreigners' registration 499 Legion of Honour awards 101, Medicaments, sale by non-phar-

macists 279
Mineral-water fraud 135
Naval frauds 381, 4.9, 499
Nun's frauds 808

Parliamentary elections 599, 656, Pharmaceutical diploma 243

Pharmaceutical diploma 243
Pharmacien honoured 4
Pharmacy inspection 101, 135
Revenue frauds 429
Société Chemiqae 243
Spas inspection 566
Tariff 4, 37, 279, 381, 429, 462, 499, 530, (H.C. quest.) 543, (comparison) 551
— Convention (U.S.) 499
Widow's right to conduct pharmacy 462
Francis & Co., Ltd. (creditors' meeting) 661
Frascatorius's confection 47

meeting) 661
Frascatorius's confection 47
Freeman, M. (personal) 3
Freeman's Chlorodyne, Ltd. (showeard) 736
French chalk, identity 258
French Codex (old remedies) 5, (formulæ) 13, 165, (committee) 689

689

— for pharmacists (book) 24, 938 French's "Art of Distillation" & Co. (ess. oil

Fritzsche, F., & standards) 372
Fruetole 672
Fruit-bottling 562 - syrups, preserving 493 "Fruitlets" 895

Fulford, C. E., Ltd. (Zam-buk soap) 469, (Fulford novels) 963 Fulford will case 318 Fullalove, W. A., & Co. (premises) 231 Fulton & Meiklc, Ltd. (reg.) 732 Fungi (book) 274, (lecture) 7 Furniture-polish 424 Furonculine 166

GALACTOVA 526 Galalith 294 Galangal exports (Cbina) Supp. Jan. 22 Gale, damage by 311 Galen Club 68, 244, 313, 381, 454, Gall ointment, preparation 447 Gall-stones, treatment 490 Galvanit (demonstration) 222, 241, 483, (delay in supplying) 754 alvanit Manufacturing Galvanit Galvanit Manufacturing (electro-plating powder) (exhibit) 288, 575
Gamble, W. H. (death) 141
Gamboge exports (Siam) 765
Gardner, J. (personal) 195
Gardner's Remedies Co. (see Beable, W. H.)
Garnets as abrasive material 46 Garries as abrasive material 46 Garrie, W. (personal) 529 Garrould, E. & R. (exbibit) 672 Gas engines (book) 938 Gascoyne, E. (creditors' meeting) 276 Gases in colloidal solutions Supp, Feb. 26 ionisation of Supp. Meh. 19 Gaumont & Co. (cameras) 575
Gayetty toilet-paper 469
Gazetto (see weekly contents)
Geka agency 74 Gelatin ointment 855 Gelatinised ferric chloride 860

Gelatinised ferric chloride 860 Gelonida 136 Gelsemium, constituents of 824 General Medical Council (poison regulations) 363, 815, 854 George V., proclamation 724, 726, 750, 757, 758, (Housebold appoint-ments) 906 George, E. R. (death) 916 Geranium oil. Bourbon 30 Gerand's "Préois de Pharmacie Galénique" 101 German Bromide Convention 897 German Pbarmacopæia revision German yeast 64

GERMANY: Assistants' salaries Supp. May 14

Assistants' salaries Supp. May 14 Canadian tariff agreement 553 Chemical Co. dividends 468, 536, 570, 635, 696, 812 — and drug-trade review 93 — industry 396, 416 Druggists' goods, schedule 840 — limitations 840 Packad goods in prescriptions Packad goods in prescriptions 246

Pharmacists' Co-operative Supply 691 Pharmacists' position 492 Pharmacy concessions 7, 349
— inspection 162
Potash Bill 256, 273, 286, 758
Sick clubs and pharmacists 599

Germiletum 824 Gibbs, D. & W., Ltd. (exhibits) 765, 917

765, 917 Gibbs, G. (deatb) 249 Gibbs, S. (will) 320 Gibbs, J., & Son, Ltd. (reg.) 535 Gibson, S. (personal) 838 Gibson, W. H. (port. and biography) 612, (Council candidate) 720

Gifford, R L. (port, and biography) 612, (Council candidate) 677, (personal) 736
Gilby, Son & Webb, Ltd. (reg.) 412
Gilmour, J. P. (on etiquette) 116,

145
Ginseng imports (Formosa) 192
— monopoly (Korea) 199
— red variety 22
Glamorgan Soap Works, Ltd.
(struck off) 812
Glassow Petersia Gondon 277

(struck off) 812 Glasgow Botanic Gardens 873 Glasgow College of Optics 207, 243 Glasgow School of Electropathy and Massage, Ltd. (reg.) 812 Glasgow School of Pharmacy Supp. Mch. 5, 380, 428, 792, 895 Glasgow University, new scheme 530

Glasgow and West of Scotland Plasmaeutical Association 116, 294, 448, 713, 758, 963
Glass, obliterating scratches 801—as vermifuge 130—writing 171
Cleantail 171
Cleantail 171
Cleantail 171
Cleantail 171

Glasspool, A. G., Ltd. (debenture)

283 Gliadin, etymology 269 Glove-eleaning paste 722 Glue from cartilage, making 366 Glyeéré d'amidon (Codex) 13 Glycerin-recovery 562
— statistics (U.K.) 775

— statistics (U.K.) 775 Glycerinum gelatinatum 855 Glyceritum amyli 13

Glycerinum gelatinatum 855
Glyceritum amyli 13
Glycozone 824
Glycyrrhizin assav 21
Glyn-Jones, W. S. (parl. candidate) 54, 75, 112, 121, 204, 284, 354, 385, 435, 537, 574, 663
Go-Go-Ene, Ltd. (reg.) 812
Godalming Chemical Co., Ltd. (reg.) 880
Gold-bullion assay, note on 893
— ink basis 455
— refining (book on) 161
Goldby Stopper Syndicate, Ltd. (debentures) 536
Golf-balls. luminous 564
Gooch, H. (death) 629
Goodall, Dr. A., on physiological standardisation of drugs 193
Goodall, Backhouse & Co. (list) 215, 672
Goods, best way of selling (letters) 967

Gossberry mildew 756
Gordon, H. A. (deed of arr.) 433
Gorton, E., Ltd. (debentures) 443
Gosheron, J., & Co. (paper tape)
156, ("Empire" sealingmachine) 320

machine) 320
Gosnell, J., & Co., I.td. (ebarges registered) 635
Gostling, T. P. (will) 12
Gould (Henry) Ltd. (reg.) 412
Govan, A. (will) 320
Government departments supplies,

Government departments supplies, foreign 958
Gower, G. A. (bankr.) 250, 282
"Granby" truck-baskets 320
Grannlated Preserved Food Co., Ltd. (struck off) 812
Granules d'aconitine (Codex) 13
Grasse, water-supply dispute 839
Gray, H. (bankr.) 71
Grayson, C. (death) 734
Great Britain's trade (see Board of Trade)

of Trade) Great Western Railway (sites for

Great Western Railway (sites for factories) 109
Great Yarmouth Pharmaceutical Association 86, 260, 405, 448, 585, 745, 930
Greeff, R. W., & Co. (price-list)

414

414
Green, A. (death) 502
Green (Bruce) & Co., Ltd. (exbibit) 746
Green, Dr. J. R. (personal) 891
Green, H. W. (lithographic portraits) 699
Green, H. G. (1975)

Greenish, H. G. (on crude drugs) Greenish's "Materia Medica" (re-

Greenish's "Materia Medica" (rewicw) 51
Greshoft, Dr. (death) 20, (on phytochemistry) 147
Grevillite bed-pan 672
Grey-oil with silver 293
Griffin, A. S. (personal) 381
Griffin, J. J., & Sons, Ltd. (mortgage) 352, (exhibit) 575
Grimshov Pharmacists' Association 260, 444, 448, 585, 743
Grimshaw Bros. & Co., Ltd. (debentures satisfied) 213, 953
Groceries as side-line 111
Grocers complain of chemists 217,

Grocers complain of chemists 217, and competition, 67, 111, 149

Gross, S. (bankr.) 734 Ground, W. D. (deed of arr.) 351 Groves, R. H. (personal) 41 Guacamphol 167

Guacamphol 107 Guaiacol-camphoric ester 167 Guardians and drug-contracts 598,

807, 942 --- supply 3, 204, 240, 346, 378, (by medical officer) 426, 428, 459, 460, (by medical men) 526, 529, 565, 655, 757, 838, 872, 906,

- and drug-tenders 688 - and empties 134, 207

Guardians and supply of expensive drugs 756 Gude's Peptomangan (in Mon-treal) 314 Guéret Frères' syphons 747 Guest, T., & Co. (spring speciali-ties) 628

Guildford Pharmaeists' Association 260

Guipsino 320 Guiterman, S., & Co., Ltd. (exhibit) 747

Gum acacia (sce Acacia)
— arabic (see Acacia)
Gummed-paper tape 156
Guy's hospital, drugs used 508

H. O. DRUG Co., LTD. (reg.) 318 H. S. Syndicate, Ltd. (reg.) Haarlem Colonial Museum 20 Hamorrhoids (see Piles Hagon, A. (port. and biography)

Hague, pharmacy at 191 Haifa, pharmacy at 183 Hair, B. W., & Son, Ltd. (reg.)

Hair (book on) 816 — cleaning powder 202, 938
Hairdressers' Association complain
about chemists 34

Hair-dye (bismuth) 100, 344 (caution) 243 superfluous, electrolytic process 456

- wash perfume 130 — (methylated spirit in) 540, 541, 576

541, 576
Hakodate sulphur 931
Halifax Chemists' Association 86, 294, 334, 406, 584, 825
Halifax Photographic Co. ("Lilywhite" papers) 413
Hall, G. (will) 537
Hallor's county 311, (advertise)

Hall, G. (will) 537
Halley's comet 311, (advertisement) 243
Halliday, S. (death) 10
Hall's "Observations" 174
Hamburg, trade of 196
Hamilton, G. (death) 881
Hamilton, W. S. (presentation) 872
Hamilton & Co., Ltd. (reg.) 352
Hammond's Foods, Ltd. (struck off) 812

Hammond's Foods, Ltd. (strata off) 812
Hancock, W. H. (will) 73
Hand-tablets 130
Hanna, W. G. (before G.M.C.) 855
Hanrahan, E. F. (death) 319, (effects sold) 380
Hardman, R. (bankr.) 140, 248
Hare-bell, identity of 395, 454, 475
Harker, H. (will) 73
Harker, Stagg & Morgan, Ltd. (list) 215. (Laurence's hairdway) 414, 628, (debentures satis-

Harker, H. (will) 73
Harker, Stagg & Morgan, Ltd. (list) 215. (Laurence's hairdyes) 414, 628, (debentures satisfied) 763
Harpur, F. J. (bankr.) 567
Harries, C. A. (death) 285
Harries, H. (death) 285
Harries, H. (death) 214
Harrington', J. F. (new sbop) 11, (potrait) 787
Harrington's Mineral-water Co., Ltd. (debenture satisfied) 318
Harrington's Ltd. (reg.) 732
Harris, E. T. P. (death) 384
Harris (Philip) & Co., Ltd. (premises visited) 870
Harris's cyanide package 415, 436
Harris (Philip) & Co., Ltd. (premises visited) 870
Harris's cyanide package 415, 436
Harris (Philip) & Co., Ltd. (premises visited) 870
Harris's cyanide package 415, 436
Harris (Philip) & Co., Ltd. (premises visited) 870
Harris's cyanide package 415, 436
Harrison 294, 334, 449, 584, 859
Harrlepools Wood Distilling Co. (liquidation) 213
Hartlepools Wood Distilling Co. (liquidation) 213
Hartlepon, A. (death) 319
Hartshorn, cale-ined 562
"Hartshorn, cale-ined 562
"Hartshorn, cale-ined 562
"Hartshorn and oil." what is? 522, 561, 593, 648, 721
Harvey, J. W. (personal) 688
Harvey, J. W. (personal) 688
Harvey, W. (will) 12
Harvey & Co. (Dublin), Ltd. (sbow-card) 11
Haslett medal 355

Harvey & Co. (Dublin), Ltd. (sbow-eard) 11 Haslett medal 355 Haslett, W. (portrait) 355 Hatrick, J. L., & Co., Ltd. (veteri-nary instruments) 42 Hay-fever treatment 376 Hazel & Robson, Ltd. (reg.) 732 Hazel's "Annual" 24 Hazel's. "House of Commons Guide" 248

Headache-powders, coroner on 806 Heart gymnastics (book) 274 Heat, book on 274 — lecture on 711

Helium, rate of formation from radium Supp. Feb. 5 Hemlock-growing 182 - poisouing 482 -- poisouing 482° Henbane-growing 180 -- seeds, supply 721 Henderson, R. (death) 319 Henderson Bros. & Co., Ltd. (de-bentures) 556 Hendry, S. M. (personal) 245 Herb-gathering 179

Herba, old English 194
Herbal, old English 194
Herbalists Act, scope of 423
Herbarium prizes (see Pharmaceztical Society of Great Britain)
Heredity, Ostwald on 83
Heroin linctus 52
Herring's eatheter-steriliser 784
"Hertz's Perfect Inhaler" (lawcose) 242

case) 242
Hesse, Dr., Jubilee 567
Hetherington, H. J. V. (personal)

839
Hewitt, J. S. (personal) 135
Hewlett, C. J., & Son, Ltd.
(traveller) 35, ("Therapeutio
Notes") 414, (Cloudique spray)
436, (new premises) 603, (closing) 963

Hexamethylenetetramine and tr. ferri (dispensing) 518 Heydon (Harold) & Co., Lto.

ferri (dispensing) Heydon (Harold) & Co., Ltd. (reg.) 696 Hickisson, A. B. (Bond's ink) 848 Hickman, T. H. (death) 434 Hicks, J. J. (Aberdeen's therme-meter) 250 Highwater Laboratory and Mfg.

meter) 250 Highwater Laboratory and Mfg. Co., Ltd. (reg.) 433 Hill, C. A. (portrait) 587 Hill, E. (will) 449

Hill, E. (will) 449
Hill, Jas. (deed of arr.) 413.
Hillaby, J. (will) 449
Hillaby, J. (will) 449
Hillier, D. A. P. (parl. candidate) 54
Hills, W. (personal) 357, 362, 546, (retirement) 790, (portrait to be painted) 923

irano mineral-water 931 Historical English Dictionary

Hitchman, H. (death) 141, (will) 670

Hoarseness, treatment 524 Hohbs, W. H., & Co., Ltd. (reg.) 283, 284

Hobson, W. (death) 214, (will) 468 "Hobson's Choice" corn-plasters Hodder, H., & Co., Ltd. (position)

50
Hodgson, R. (death) 573
Heffe, P. (bankr.) 4
Hoffmann, F. (anniversary) 420
Holden, T. (death) 734
Holdsworth, G. (death) 916
Hole, J. G. (death) 434
Holgate, S. V. (death) 846
HOLLAND:
Haarlem Colonial Museum 20

Haarlem Colonial Museum 20 Tariff treaty with Italy 429 Hollingsworth, W. S. (will) 108 Holmes, E. M. (seaweed collec-tion) 917

Homeopathy in Russia 511 Honey crop 907 — exports (Hayti) 884

exports (Hayri) 869
fermentation 904
minporting (O R.C.) 245
moduction (Crete) 192
Hove Kove:

Examination requirements 627 Onlym Ordinance 541 Hoogland's (B.T.) Sons (Gayetty paner) 469

Hon aphis, treatment 928
— industry (H.C. discussion) 366
— nillows 130
Horlick's Malted Milk Co. (reg.)

Forne, E. (hefore G.M.C.) 854 Horniman, E. J. (parl. candidate)

Horse-blister green 722
—enticing oils 561

- enticing oils 561
- sickness (preventing) 123,
(treatment) 118
- condition and worm powders
594, 868
- wange in disinfecting 99
- Horsley J. (port, and death) 283
- Horticultural poisons: (see Agriborticultural chemicals)
- Hospitals, central laboratory soggested 479

Hospitals, complaints 428 Houghton's, Ltd. (exhibit) 575. 747 Hovenden, R., & Sons, Ltd. (list) 156 215 Hovenden, R. (library sold) 251

Howard, D. (personal) 354, (on cinchona) 636, (personal) 836 Howards & Sons, Ltd. (quinine tablets) 573, (fire) 653, 686, (exhibit) 747, (additions to works)

830 Howatson, J. (death) 468 Howell, F. E. (deed of arr.) 695 Howell, T. (death) 72, (will) 384 Howie, W. L. (personal) 565 Huddersfield Chemists' Associa-tion 158, 294, 444, 585, 682, 701, Hudson's dry-soap (law-case) 532,

871, 945
Hughes, J. (death) 502
Hughes's syriuge 353
Huile de Cade bath and pomade

926

- de Camomille (Codex) 13

- Phosphorée 13 (Codex)

Hull Chemists' Trade Association

504 Hull Pharmacists' Association 56, 225, 366, 743, 584, 586 Hungarian Pharmacopæia 18 Hungary, pharmacy regulations

Hutchinson Co. (list) 353, (exhibit)

698, 747 Hydrargyri perchlor. (see Mercury perchloride) Hydrastis canadensis, growing 180 extract, factors 110 Hydrated magnesia (P. D. & Co.)

Hydrochloric acid, cement-rough-

ener 67 ener of -- poisoning 57, Supp. Feb. 5, 162, Supp. Feb. 12, Supp. Mch. 5, 482, 500, 630, 678, 699, 749, 840, 896, 936

Hydrocyanic acid in plants 147, 148 Hydrocyanic acid in plants 147, 148
— poisonings 23, 162, Supp.
Feb. 12, 286, Supp. Feb. 26, Supp.
Mch. 5, 482, 552, 591, 699, 756,
792, 840, 936, 944
Hydrogen for balloons, cost 797
— discovery 386
— peroxide (in medicine) 20, (as milk preservative) 683, (Ph.G. monograph) 401, (solid) 167, (uses) 215
Hydrometer accuracy of 479

(uses) 215

Hydrometer, accuracy of 479

Hydroquinone develoner 424

Hygeia as goddess 599, 665

Hygiene, book on 24

Hygeine Syphon Co. (1910), Ltd. (reg.) 467. (exhibit) 747

— described 544

Hygienic Tin Sealing Co., Ltd. (reg.) 843

Hyll & Klein (inset) 145

Hymans, H., & Co. (peach-kernel oil) 285

Hysseyamus (see Henbane)

Hyoseyamus (sce Henbane) Hypnotism (beok) 24 Hypono 575 Hyrgoferment 167

ICE-CREAM STANDARD (U.S.) 810 — to make 375
— powder 524
Ice-making (see Refrigeration) Ice-making (see Refrigeration)
Ichthyol Co. (inset) 143
Idolice specialities 352
Idris, T. H. W. (port.) 929
Idris & Co., Ltd. (works visited)
310 (van accident) 426. (charges
reg.) 635, (exhibit) 747, (warehouse entered) 997
Israol, used in infirmary 688
Ifford, Ltd. (Intona paper) 215,
("Versatile" plates) 413. (Versatile plate agency) 436, 721, 754,
800

800

pharmacists' difficulty during 919
Illslev. T. B. (death) 734
Imperial College of Science and
Technology 435

Income-tax inquiries 268

Income tax inquiries 268

— of partners 34
Income Tax Reclamation Association, Ltd. (rating appeals) 414

— renayment, claims 492
— returns, inquiries 129
sneorporated Medical Practitioners' Association (liquidation) 763

Incorporated Society of Extractors and Adaptors of Teeth, Ltd. 923 Incorporated Society of Hospital

Officers, 213
Incorporated Society of Inspectors
of Weights and Measures (resolutions) 724

Indeeent advertisements, legisla-tion 336

- eirculars prosecution 278
"Index of Symptoms" 782, 844

Chemists' prospects 867
Harmacies described 18
Poisons Bill (Mysore) 246 Tariff 509 Trade of 541

Indian hemp smuggling 85 - rice, composition (book) 24 Indiarubber (see Rubber) Indigestion treatment 490 Indigo, artificial (new company)
340, (new process) 794
— exports (Java) 28

Indirubin 960 Industrial spirit (Transvaal) 809, (India) 910

infants' "comforter" (death from) 4, (objected to) 67 preservative" (inquest case)

242

Influenza, prevalence (Machester) 66, 204 Inglis's "Profit Reckoner" 24 Inglis's "Profit Reckoner" 24 Ingoldby, W. (death) 384 Ingram & Royle, Ltd. (Con-trexéville price) 11, (Vichy water) 156, (exhibit) 747 Iuhabited-house duty (how deter-mined) 363, 867, (who pays) 903 Ink powder 375

— for rubber stamp 130 — for window-tickets 1 — for writing on tins 130 ————zinc 814

— for writing on tins 130

— — — zine 814

— stains, removing 650

Inman's Stores, Ltd. (absorbed by Boots) 704, 726

Innes, R. L. (death) 283

Innes & Co., Ltd. (reg.) 914

"Ino" soap swindle 841

Insect-bite remedies, advertising Supp. May 28

Insecticides, veterinary 456

Institute of Chemistry (building fund) 98, ("Official Appointments") 110, (pass-list) 133. (pass-list) 698, (report and annual meeting) 347, (unprofessional conduct resolution) 347, 597, 686

Institute of Ophthalmic Opticians 346, 448

346, 448

Insurance scheme (U.S.) 7, (Vict.) ana

Inter-Pharmacy Football League Supp. Meh. 5, 448 International Automobile Exhibition 103

International Chemical Co., Ltd.

(winding-up) 880
International Congress of Applied
Chemistry 84
International Congress of Chambers of Commerce 870 International Congress of Colonial

Agriculture 503
International Congress of Hygiene

International Congress of Hygiene (Argentine) Supp. June 18.
International Congress of Pharmacy 706, 707, 781
International Congress of Physiotherapy 37, 461, 499, 530
International Congress for the Repression of Adulteration (liquorice standard) 21
International Dental Federation 499

International Remedies, Ltd. International Salt Co., Ltd. (mort-

gage) 443
International Sponge Importers,
Ltd. 157, 318, (annual meeting)

Intona paper 215
Iodine, earbolic soid, and econine
throat-paint (dispensing) 492 explosive compounds 827
 factory (Russia) 420

 liberation in mixture 479, 480 - mfr., France 521 - ointment, stainless 85

Iodine-poisoning 630 — tineture, large dose 518 Iodised sarsaparilla 456 Iodo-tannic syrup, preparing 293 Iodoform emulsion, making 295 — odour, removing 761 Ionic surgery (book) 782

Ipswich Chemists' Association 444, 601, 687

Ipuranol, source of 403 Ireland, Dept. of Agriculture, report 655

port 655 Irish Chemists' Assistants' Asso-ciation 134, 158, 207, 260, 294, 331, 366, 405, 444, 484, 485, 516, 587, 712, 744, 942 Belfast branch, 550, 585, 677, 713,

942 Irish Local Government Board (see

Local Government Board)
Irish manufactures, reviving 100
— moss mucilage 456
— trade-mark, Guardians' stipula-

tion 428

Iron albuminate solution 143 - chloride, gelatinised 860 - enamelling (book) 24 - iodide pills (Codex) 165

- to magnetise 3

- to magnetise 32
- stains on wood 801
- sulphate, poisoning 896
Islay, chemist wanted 498
Iso plates 575
Italian Pharmacopæia, new 327

Pharmacy regulations 507

Tariff treaty with Holland 429 Itrosyl mfr. 153 Ivoriz tooth-paste 672 Ivory piano-keys, cleaning 343 Izal, Ltd. (exhibit) 765

J. S. W. PREPARATIONS (DEMAND) 42 503

Jackson, J., & Co. (removal) 954 Jackson, T. (Rusitas) 628 Jackson, W. & H. (snake fly-catcher) 573 Jahn, E. A. (death) 734 JAMAICA .

Examination requirements, 627 U.S. trade with 114 Jane, R. B. (see Caudery, W., &

JAPAN

Army pharmacists in 6 Chemical imports, testing 797 Drug-selling Act 691 Naval pharmacists in 6 Pharmacy tuition 464 Physicians practising abroad 843

Physicians practising abroad 843 Proprietary medicines export 6, (tax) 246, 381 Tariff 344, 500, 641, 663, 668 (H.C. quest.) 911 Trade of 196, (in 1909) 557 Wax 931

Japan-British Exhibition 74, (dinner) 298, 647, 765, 917, 931 Japan Chemical Industry Co. (ex-

hibit) 931 Japanese Pharmacopæia amend-ment 137 "Japyrole" toilet-paper 414

Java quinine-factory 556, 900 Jellies as side-line 201

Jenkins, Goundry & Co., Shipping Chemists, Ltd. (reg.) 812 Jenkinson, J. (will) 108 Jennison, F. H. (bankr.) 634

Jerusalem, pharmacy at 183

Jeyes' Sanitary Compounds Co.,
Ltd. (standardisation of disin-

Ltd. (standardisation of disinfectants) 42, (Irish trade) 100, (exhibit) 672, 747, 765
John Bull Foods, Ltd. (reg.) 318
John, H. C. (equinopulv) 963
Johnson, R. W. (death) 536
Johnson & Sons (exhibit) 575
Johnstone, W. H. (bankr.) 71, 351
Jones, D. T. (before G.M.C.) 816
Jones, F. (will) 284
Jones, Sir A. (will) 108
Jones's "Traders' Law" 24
Jopling, W. (bankr.) 71, (auction

Jones's "Traders' Law" 24
Jopling, W. (bankr.) 71, (auction
sale) 214, 282
"Journal de Pharmacie et de
Chimie" centenary 37, 566, 943
Jubilee eoins, value 561
Junior Pharmacy Ball 133, 333
Juniper-oil standards 341, 373, 399,
421, 477, 491

Juries Act Amendment Bill 614, 669, 911

Jury-service (chemists' position) 669, (ph.c.s exempt) 268 Jusquiamus, etymology 47

KAFFIR BEERS 759 Kain, F. A. (death) 283 Kaloderma preparations 917 Kamala adulteration 110 Kamin adulteration 110
Kaolin ponltice 85
Karnovsky, H. L. (personal) 918
Karox Mfg. Co., Ltd. (notice) 544
Kasbah kidney-cure 573
Kauri gum exports (N.Z.) 655 Kay Bros., Ltd. (Viper fly-catcher) 573, 628

Kazana Sour-Milk Cure Co., Ltd. (reg.) 812 Keating, T. (advertising season)

Keighley Chemists' Association, 86, 894

Kelp industry (France) 521

Kelp industry (France) 521
Kemikol 655
Kennard, J. H. (deed of arr.) 351
Kennedy, H. W. (death) 249
Kennedy & Son, Ltd. (reg.) 812
Kent, G. B., & Sons, Ltd. (Calox agency) 74, (dividend) 213, 880
Kepler Malt-extract Co., Ltd. (winding-up) 845
Kern Systics to 14, (reg.) 501

Kern Syndicate, Ltd. (reg.) 501 Kerol toilet-preparations 838 Kerr, C. (presentation) 428 Kerr, C. (presentation) 428 Kesp Mfg. Co., Ltd. (reg.) 535 Kcys, T. S. (bankr.) 106 Keys (Tasker) & Co., Ltd. (bankr.) 535

King, P. B., & Co., Ltd. (reg.) 570 Kinninmont medal award Supp. Meh. 5

Mch. 5 Kirkby, J. H. (bankr.) 762, 879 Kissanc, I. (death) 384 Klebon 215 Knight, W. (will) 915 Koch, Dr. R. (death) 846

Kodak Co., Ltd. (terms of supply)

Kohol, use of 801 Kola exports (Sierra Leone) 28 — pills 855

-- pills 855 Kolloid applications 109 Kolynos Incorp. (exhibit) 747 Koptica Syndicate, Ltd. (reg.) 661 Kosmo Lubric Oil Co., Ltd. (reg.)

Kroomda Co. (exhibit) 827 Krypton, in Bath water 98
Kunerol & Cococctta, Ltd. (wind-ing-up) 635, 661
Kutnow, H. S. (personal) 73

Label-paste 455 Labels. to affix firmly 376, (on

Labels, to affix tin) 801 Lac (see Shellac)

Lactoform 167
Lactoform 160 food 672
Lactoff Co. (toilet preps.) 414
Lactor preps. 672
Laidlaw, W., & Co., Ltd. (reg.) 213
Laid d'iris 926
Laitprots 657
Laitprots ages in 672

Laitproto easein 672 Lamont, R. (death) 43, 68, (will)

Lamont, Corless & Co. (exhibit) 672 Lamplough, H., Ltd. (dividend) 107 Lamplugh, W. (death) 43, (will)

Lanadron rubber estate 391 Lanashire Teeth Co., Ltd. (reg.)

433 Lancaster Chemists' Association Supp. Jan. 29, 227, 444, 585, 756 Landlord and tenant, inquiries 343, 532. 867, 903 Landolt, Prof. H. (death) 502 Land tax liability, inquiry 649 Lane, H. R. (will) 78 Lang. J. (port. and death) 9 Lang (Jules) & Son (exhibit) 747 Langes' Successors, Ltd. (liquidation) 107

Langes' Su-tion) 107 international Language, international 926 (see also Esperanto)

Lanovaseline ointment 855 Lantern-slides, diagrams on 95 Lapis divinus 13 Lard. preserving 561 Lasham, J. (death) 72

Latin in Pharmacopeia 53, (in U.S.P.) 823, (letter) 866—use in science 885 Laudanum de Sydenham (Codex)

- habit 3 — habit 3 Laudanum-poisoning 23, 57, 99, Supp. Feb. 5, Supp. Feb. 12, 286, Supp. Feb. 26, Supp. Meh. 5, 552, 591, 630, 749, 792, 814, 840, 936

Laurence's hair-dyes 414, 628 Lavement à l'amidon, etc. (Codex)

13
Lavender oil standards 328, 341, 399, 477, 491
— plant, varieties 151
Lavona de Composée (in prescriptions) 268, 305
Law, affecting pharmacists 484
— books on, 24, 641
— for traders (book) 24
Lawes' Chemical Co., Ltd., new laboratory 310
Lawson, H. L. W. (port.) 154, Lawson's Mineral-waters, Ltd. (reg.) 535
Laxam 672 Laxam 672

Laxani orz.
Laxanive tincture 611
Layman, C. N. (death) 319, (will)
449, (estate notice) 906
Le Bosquet's "Manuel d'Anglais"

"Le Camphre" Co. 351, (report) .861
"Le Tutélaire" pasteuriser 672

Lea, J. (death) 662 Leach, J. (death) 961 Lead, estimation of small quanti-ties 670

ties 670

— plaster poisoning Supp. Feb. 12

— testing for 132

Leake, T. W. (death) 310, 319

Lease of land, inquiry 722

Leather, bleaching 376

— to make airtight 650

— how made, 710

Leather's ozonator 156

Lecipon 167

Lee Smith, H. E. (will) 449

Leeds Chemists' Association 262, Association 262,

Leeds Chemists' Association 405, 654, 700, 825 Leeds Infirmary bequest 654 Lega & Co.'s agents 320

LEGAL REPORTS :-

Companies Act: Kunerol & Cococetta, Ltd.

Kunerol & Cococetta, Ltd. (winding-up) 635, 661 Lorimer & Co., Ltd. (wind-ing-up petition) 535 (see also Lorimer & Co., Ltd.) Myddeton's, Ltd. (liquidation)

Rational Remedies, Ltd. (winding up petition) 105, 141 (see also Rational Remedies,

Ltd.)
avile Town Chemical Co., Litt.)
Savile Town Chemical Co.,
Ltd. (winding-up) 283, 352
Shanks, J., & Co., Ltd. (winding up petition) 467
Swansea Oxalic-acid Works,
Ltd. (receiver appointed)

I.td. (receiver appointed)

asker. Keys & Co., Ltd. Tasker.

Customs Act (see also Revenue Act): Hartley, W. H. (uncustomed spirit) 842

Dentists Act: Barrett, W. T. (using title)

Bellerby v. Heyworth & Brown Bellerby v. Heyworth & Brown (appeal set down) 411. (appeal) 631, (explained) 923 Goy, J. D. (using title) 411 Hamer, H. J. (using title dentist) 281 Minter v. Snow (appeal set down) 411, (appeal) 631, (explained) 923 Rogers v. Byrne (expert adapter of teeth) 103, 210

Factory Acts:
British Oxygen Co., Ltd.
(accident not notified) 765
Thwaites & Co. (face-guards) 243

Fertilisers and Feeding stuffs Lawlor, J. & J. (basic slag)

LEGAL REPORTS (cont.) :-

General:
Bailey v. Jeans (apprentice's claim) 728
Barberett v. Malins (tooth-ex-

traction damages) 71 ateson v. Jeye's Sanitary Compounds Co., Ltd. (soft Bateson soap) 945 Beardall v. "John Bull." Ltd.

(libel case) 694
Beecham v. Martin (passing-off case) 633

case) 655
Berliner v. Sayers & Son (debt
case) 431, 456
Black r. Edinburgh Hygienic
Institute (teoth-extraction
damages) 811
Blaka v. Lawson (saye been

dannges) 811
Blake v. Lawson (soya-bean meal) 247, 501
Boulter, J., & Co. v. Towers (claim for goods ordered) 281, 341, 373
Bowen v. Stacey (claim for unfulfilled engagement) 106
Boyd v. Woods and others chankenutey considered (22)

fulfilled engagement) to Boyd r. Woods and others chankruptcy conspiracy) 212 Brereton v. Entwistle & Sons (tooth-extraction damages claim) 248 Burdin & Co. v. Fruit Juice

Burdin & Co. v. Fruit Juice
Co. (claim for carboys) 658,
(carboy account) 728
Cade & Sons v. Daly & Co.
(price-maintenance case) 410
Carlton Illustrators v. Coleman & Co. (Wincarnis
poster) 139
Coloman & Co. v. Attoc (pas.

poster) 199
Coleman & Co. v. Attoc (passing off Winearnis) 105
Cook v. A. White & Sons (damages for injuries) 106

Copeland v. Hebden (traveller's guarantee) 945 Crane v. National Cash Register Co. (breach of warranty) 728

Crapp v. Hewlett (dcbt dispute) 532 Dickson v. Hygienic Institute (teeth-extraction damages, appeal) 246

appear) 240 bistrict Chemical Co. v. Jackson (soda crystals) 945 Ellis & Son v. Flanagan (claim for syphons) 660 Evans v. Priest (moncy lent)

Evers v. National Cash Register Co., Ltd. (notice to leave)

Fellows v. Cadas (managing director) 879

Frackleton v. G. N. Rly. (goods damaged in transit)

Fulford v. Lloyd (passing-off Zam-Buk) 496, 811

Gertzen v. Uhlig ("Trek zalf," passing off) Supp.

Mch. 5
Gibson v. Murdock (fixtures elaim) 207, 497
Gibson v. Potteries Hygienic Institute (teeth extraction damages) 569
Hassard v. Harten (slander

Inssurd v. Harten (slander case) 410 Hudson v. Gossage

Hudson v. Gossage (injunction sought) 552, 871, 945
International Sponge Importers, Ltd. v. Lloyds Bank
Ltd. (cheque frauds) 432
Kalmas & Neffen v. L. & N.W.
Ry. (traveller's luggage) 631
Keogh v. Incorporated Dental
Hospital (libel action) 245
Lawrie v. National Cash Register Co., Ltd. (breach of warranty ease) 841
London Joint Stock Bank v.
Wightman (Caudery estate)
632 (injune-

b32
Macaura v. Cameron ("bleod-circulators") 410, 467
McConnell v. Sinclair (admini-stration of estate) 312
Markham v. Livesey (eattle-food claim) 106
Maurice v. British Dental Asso-ciation and Bale (directory

libel) 879
Mayhew v. Boyes (surety liability) 315, 632, 946
Mercantile Agency Co., Ltd. v.

LEGAL REPORTS (cont.) :-

General (cont.):

A. Kingsley & Co. (payment for advertisements) 212

A. Kingsley & Co. (payment for advertisements) 212 Moloney v. O'Leary (appren-tice's board and lodging) 535 Mordaunt v. British Oil and Cake Mills (oil-contract votes) 912

Cake Mills (oil-contract notes) 912 National Cash Register Co. v. Bottomley (libel case) 532,

Needham v. Sandbach (appren ticeship indenture eancelled) 431 Nugget Polish Co. v. Holmes

Nugget Polish Co. v. Holmes & Andrews (selling-price conditions) 281
O'Brien v. Waterford Hygienic Institute (teeth-extraction damages) 569
Ogston & Tennant, Ltd. v. Daily Record" (litel case) 343, 410
Ochler v. Reitmeyer & Co. (diamidophenol contract) 33, 54

O'Toole v. Clancy (breach of

O'Toole v. Clancy (breach of promise) 908
Padfield v. Lewis (tooth-extraction damage) 728
Papier Poudré, Ltd. v. Lafette (passing-off motion) 912, 946
Parkinson v. Parkinson ("Parkinson's pills") 532
Peck v. Tattersall (chemist slandered) 38
Pursor v. Thomas (sale of busi-

Purser v. Thomas (sale of business) 728, 914 Quinn v. Quinn (disclosing

ness) 728, 914
Quinn v. Quinn (disclosing secret formula) 912
Rank v. Knight (claim for goods) 245
Rawnsley v. British Medical Association (libel case) 140
Riley v. National Cash Register (claim for damages) 246, 281, 245
Rothben v. Malson (claim for

Rothban v. Molson (claim for 5d.) 914

5d.) 914
Scarborough and Whitby
Breweries, Ltd. v. Sutton &
Phillips (use of an formin)
569, 633, (appeal) 945
Schaefer v. Radua Mfg. Co. &
Elliott (indemnity declaration) 104
Seguah v. Allport (claim for

Sequal v. Allport (claim for curing rheumatism) 317
Sequah v. Bracegirdle (claim for curing knee) 317
"Sketchy Bits" v. Capsuloids,

Ltd. ments) (advertisement

ments) 451
Smith, W. H. v. Elliman. Sons & Co. (cost of books) 841
Smith v. McVean (bill of exchange ease) 432

Smith's Advertising Co. v. Leeds I aboratory (advertising vitaloids) 140, 350 Society of Architects v. Kendrick (use of letters M.S.A.) Spence r. Thorn (party-wall

Spence v. Thorn (party-wall ownership) 247
Stevenson v. Hertz (claim for boxes) 532
Studd Co. v. Hieks (cattle-food claim) 106
Sullivan v. Lynch (debt ease) 105, 879, 914
Swift v. O'Toole (hair-specialists' swindle) 841
Templeton v. Burns (recovering medical fees) 207
Terilay v. Hygienic Institute (denture damage) Supp. Jan. 29
Thresher v. Hygienic Institute

Thresher v. Hygienic Institute (damages for death of wife)

(damages for death of wife) 105, 461

Tosh & Co. v. Cooper & Nephews (Indian agency dispute) 633

Union Rubber and Chemical Co., Ltd. v. Cowan & Cohen (traveller's com.) 317, 914

Valentine v. Ault (agency commissions) 466

West v. Lonsdale Mineral

Test v. Lonsdale Mineral Water Co. (phenol in lemon-

Water (%) (phenol in lemonade) 312
White & Sons v. Weber (pill-machines) 211
Young, J. R. (will case) 8

LEGAL REPORTS (cont.) :-

Medical Acts:

Banks, C. (using "M.B.") 213
Werner, H. (unregistered medical man) 762
Medicine-stamp Act:
Hedley, J. (unlicensed sale) 634
Smith, W. W. L. (unlicensed sale) 281
Taylor ("regular apprentice-

Taylor ("regular apprentice-ship") Supp. Jan. 29, 209, 218, 350

Turner, F. G. (no licence and

Turner, F. G. (no licence and unstamped medicines) 248
Merchandise Marks Act:
Alpha Pickle and Sance Co.
(Burnett's vinegar) 948
Hawkin, W. A. (white precipitate) 350
Hertz, J. (inhaler) 242
Highfield, A. D. (olive oil) 569
Inglis (Beechan's pills) 554
Mooney, C. (Mander's varnish) 68

Mullin, P. ("Irish-mado": ca.idles) 312 Olive oil 606, 658, 719, 730

Olive oil 600, 658, 719, 730
Paregoric 138
"Soda" 651
Squire & Son ("Yorkshire Relish") 952
Topping & Co. ("Pure Continental Lard") 497
Ward (Beecham's pills) 534
Patent Acts:
Adhesive Dry Mounting Co.,
Ltd. v. Trapp & Co. (photomounting) 350, 410, 466
Badische Anilin und Soda Fabrik v. Nobel's Explosives Co. (sulphuric-acid patent) 410,

(sulphuric-acid patent)

Brunner, Mond & Co. (calcium-Brunner, Mond & Co. (calcium-chloride dust-preventer) 762 Johnsen & Jorgensen (clay-custing patent) 39 Nicholls v. Kershaw (reflex eamera patent) 105 Saccharin Corp. v. National Saccharin Co. (patent iu-fringement) 532, 694 Sandemann v. Böhringer

ndemann v. Böhringer (latex coagulant poison) 61 Thermos, Ltd. v. British Caloris Co. (patent infringe

Caloris Co. (patent infringement) 66
Thermos, Ltd. v. Isola, Ltd.
(Thermos patent) 315, 694
Pharmaey Act:
Banyard or Beresford (using title chemist) 811
Coverdale, Ltd. (address on poisou-label) 410
Edwards, T. (appeal) 526, 602, 616, 665
George, W. & I. (sale of corrosive sublimate) 842, 915
Gunn, G. B. (sale of laudanum) 729
Gunn, R. A. (sale of laudanum) 660, 729
Keys, T. (sale of poison) 729
Lewendon, W. (unlicensed vendor) 946

Keys, T. Lewendon, W. Lewendon, W. vendor) 946 vendor) B. (sale of poison)

McDowall, D. B. (sale of poison) 692
McGregor, W. (sale of poison) 692, 730
Mercer, C. A. (post poison sale) 692, 702
Mendend, E. (sale of

Moreland, E. (sale of

Moreland, E. (sale of oxalic acid) 811 Morle & Co. (sale of XL All insecticide) 729 Nash, W. J. (delegating poison-licence powers) 875, (judgment) 946 Preover A. J. (unlicensed

Peeover, A. J. (unlicensed vendor) 947

Robinson, H. (wholesale transaction) 692, 702 Trusler, T. (sale of XL All ir secticide) 729

Veners (nicotine insceticide) 913

Pharmacy Acts and Ordin-ances Colonial (see under the name of country)
reisoned-grain Prohibition Act:

Kirk, H. (laying grain) 653 Strychnine grain 533 Poisons and Pharmacy Act (see Pharmacy Acts supra)

Revenue Act:

Methylated spirit (sale after hours) 533

LEGAL REPORTS (cont.):—

Revenue Act (cont.):

Saccharin harbouring 533, 653
Saccharin smuggling 99, 497, 529, 756, 906
Saxlehner v. Hancock (in-Saxlehner v. Hancock (in come-tax liability) 350
Sale of Food and Drugs Acts: Ammonia liniment 501 Ammonium acetate solution 411 Buvo 912
Camphorated oil 466, 660, 732
Chocolates for joking 811
Citric acid 952
Cod-liver oil 106, 212, (warranty) 316, 466
Cream of tartar 811
Ginger-wine (salicylie acid in) 660
Land substitute 100 Buvo 912 Lard substitute 140 Linseed oil 466 Mace 912 Mustard 791 Olive oil 316, 501, 534
Potted meat, boric acid in 534
Sweet spirit of nitre 8, 35,
_204, 569, 811 Vinegar 71
Wines containing salicylic Wines oo aeid 466 Shop Hours Aet: Notices, not exhibited 134

Town Tenants (Ireland) Act: Smith v. McManus (claim for disturbance) 532 Trade Marks Aets: rade Marks Aets: Carron Co. (use of "Royal" in trade-mark) 658 Cassella, L. ("diamine") 432, 694, 728 Chemische Fabrik Griesheim Elektron (pictorial trade-mark) 122 Crosfield v. Lever ("Perfee-tion" trade-mark) 841 Esconflaire v. Richter (Zematone t.m.) 211 Gosnell v. Sivaprakasam (Famora trade-mark) 841 Lecouturier v. Rey (Chartreuse trade-mark) 466 Peterinary Surgeons Act:
Burnes alias Salvo ("cat doctor and expert") 731
James, G. R. ("member of R.C.V.S.") 695
Wilson, W. J. (using title) 655 Weights and Measures Act:
Golding (can as measure) 841
Hughes, B. (unstamped lughes, B. measure) 348 Kernick & Sons, Ltd. purposes defence) 39 Workmen's Compensation Act: Evans v. Burgoyne, Burbidges (lump sum compensation) 71 Leicester Amalgamated Mineral-Co., Ltd. (reg.) 762 Leicester Chemists' Assocn. 119, 511, 677, 743 511, 677, 745
Lemongrass oil, assay 22, 151
— Uganda 824
Lemon-oil copper as coal-box 94
— price in 1909 27
— standards 399, 421, 477, 491 Lenitol, 672 Leus, aperture for focussing 575 Lenses, neutralising, method 473 Lentocaliu 167 Lentocaliu 167 Leonotis ovata 780 Leprince, Dr. (guipsine) 320 Leprosy, nastine in 70, 427 Lerez table-water 745 Lescol Perfumery Co. (exhibit) 747
Leto Co., Ltd. (exhibit) 575
Leucorrhea, treatment 367
Lever, J. D. (will) 813
Lever, W. H. (parl. candidate)
54, (portrait) 55, Supp. Jan. 29,
(gift to L'pool University) 378 (gift to L'pool University) 378
Lever Bros., Ltd. (Durham
factory) 5, 463, (meeting) 501
Levermore (Aug.) & Co., Ltd.
(reg.) 467
Levuretin 166
Levurine 166
Levurine 166
Levis, J. (death) 214, (creditors'
meeting) 411
Lewis, W. G. (appointment) 537
Lewis & Burrows, Ltd. (progress) 50

Liberia medicinal-plants Supp. June 18 Library as side-line 195 Licences (see Wine licences) Lichtenstein & Co., Ltd. (deben-40 Liebicine 858 Liebig's Extract of Meat Co., Ltd. (dividend) 107, (factory in-Life, prolongation, Doyen on 566 Lighting premises 786 "Lightning" cough cure, direc-"Lightning" cough cure, directions Supp. Apr. 23
"Lilywhite" photo. paper 413
Lime-fruit cultivation (Demerara) Supp. June 18 Lime-sulphur wash (standard) 928 Limited companies removed from register 352 Linaloc oil, methyl heptenol in Linaloe-seed oil 152 Linctus Heroinæ Co. 52 Linctus Heroinæ Co. 52 Lindsay, R. (death) 84 Lin. ammoniatum 581 Hartshorn and oil) 846 581 (see also — camph. (see Camphorated oil)
— opii eo. (what is?) 517
— potass. iodid. (dispensing) 454 - saponis co., what is? 903 Linoval, ointment base 482 Linseed exports (Argentine)
Supp. Feb. 19
— oil (book) 481, (price) 113
Liutner's malt test 493, 924 Liq. ammon. and tinet. opii re-action 517 action 517

— acet. and tr. quin. amm. mixture (dispensing) 518

— bismuth in mixtures (dispensing note) 517

— and sodii sulph. mixture (disp. note) 648

— ferri phosph. pro syrupo 494

— plumbi, what is? 868

— potass. and copaiba mixture (dispensing) 518

— strychnine, colouring suggested 201 gested 201 gested 201
Liquorice-juice (Parry on) 21, (standard) 21
— root exports (Batoum) 911
Listerine trade-mark (law-case) "Little liver-pills," use of words, Liverpool Apothecaries' Hall 249 Liverpool Chamber of Commerce Liverpool Chemists' Assoen, 66. Liverpool Chemists' Assoen. 66, 119, 226, 296, Supp. March 5, 483, 585, 687, 962 Liverpool University, gift to 378 Livingstone, prescription of 724 Llandudno Pharmaeists' Association 711
Llewellyn, G. P. (death) 791
Lloyd, F., & Co., Ltd. (debentures) 352
Lloyd, T. H. (personal) 108
Local associations, value of 158
"Local Government Annual," 161
Local Government Board for
Ireland and medicine tenders
348 (see also Guardians and
drug supply) tion 711 drug supply)
Local Government Board report
(England and Wales) 17
Lockhead, A. R. (divorce case) Lockyer, J. E. (exhibit) 575 Locusts' eggs, research 726 Lodal, 628 Lofthouse & Saltmer, Ltd. (reg.) London Chamber of Commerce or Chamber of Commerces (railway rates deputation) 204, 276, (port-dues) 292, 303, 336, (chemical section) 407, 409, 496, (chemical section) 407, 409, 499, 556, 596, 870 London Chemists' Association 261, 415, 585, 637, 859 London Chemists' Golf Club 587, London College of Pharmacy 88, London County Council labora-tory staff 906 -scholarship regulations 564 London drug statisties 58, 274, 371, 552, 797, 901 London Electric Treatment In-stitute, Ltd. (reg.) 72

London, geology of 635 London Polish Co., Ltd. (reg.) 914 914 London Port Authority (ed.) 220, 230, 243, 287, 291, 303, 336, 346, (chemical mfrs. evidence) 407, 426, 486, 663, (report) 700 London Port, medical officer's report 686 report 686
London Produce Clearing House,
Ltd. (dividend) 40
London University 426, 917
London University College
(chemical laboratories) 292, 653
Long, A. T. (death) 629, (will) 962
Long, J. T. (death) 662, (will)
735 733 Long, W. E. (death) 384 Longbothams, Ltd. (reg.) 661 Lorimer & Co., Ltd. (quinine wine) 320, (winding-up peti-tion) 501, 535, 591, (creditors' meeting) 732, (letter) 866, 915, (circular) 953 (circular) 955 Lottery Act (inquiry) 423 Lough, T. (parl. candidate) 54, (portrait) 55 Louis, J. L. (before G.M.C.) 855 Love philtres, sale of 531 Low-temperature research 162 Lowe, Ltd. (reg.) 535 Lubroleine Oil Co., Ltd. (reg.) 40 Lucas-Championnière's pomade 926 926 Lumiere, N. A. Co. (exhibit) 575 Luminous bacteria, effect of cold on 162 on 102 Lunacy orders, fees 834, 938 Lung-tonic 424 Lunge's "Mfr. of Sulphuvic Acid" 24 Lyddon, C. (before G.M.C.) 854 Lyle, S. F., Ltd. (receiver) 9 Lyman, C. (will) 691 Lyneh & Co. (stock sold) 286, 310 Lysol supply 848 Macadie, W. (appointment) 229, (presentation) 469 MeAllister, J. (death) 67 Macartney, J. S. (appreciation) 77
Macaura, Prof., blood-circulator
Supp. Ap. 23 (see also "Blood
circulators")
MacCallum, J. M. (will) 792
MacDonald, A. (death) 846
Macdonald (1 crey), Ltd. (reg.)
953 Macdonalds (Manchester), Ltd. (debenture) 72
McDowell, Dr. D. K. (personal)
Supp. Feb. 5
Macer's "Herbal" 194
Maefarlan, J. F., & Co. (new factory) 872
McHardy, W. N. (death) 662
McInnes, A. (death) 502
McKesson & Robbins (inset) 143
McNeight, W. J. (death) 882
McNeil, T. M. (port.) 813
MacOwan, Dr. P. (death) 571
Macphersons (exhibit) 747
McTaggart, W. (death) 530
Madagascar, drug imports 192
— sandal-wood oil 404
Magnesia and bismuth powder
855 Macdonalds (Manchester), Ltd. 855 Magnésie, citrate de (Codex) 13 Magnesie, citrate de (Codex) 15
Magnesium-anmonium sulphate,
solubility 675
— carb., what is? 31
— sulphate, early use of 737
Magnetie storms, lecture 378
Magnetism, books on 24, 926
— and electricity (book) 274
Maiden's "Genus Eucalyptus" Mail-order business (see Shopping Main, J. (personal) 314
Major examination (see Pharmaceutical Society of Great
Britain) Malaria, book on 641 - campaign against 359
- combating 70, (Transvaal) 31
- precautions against 310, 536
- treatment 136 Malattine toilet preps. 746 Mallmann Chemical Works (artificial musk) 156
Malt-extract, determining
static power (Ling) 924

Malt-extract, Lintner's test 493. 924 Malta fever (H.C. quest.) 911 Maltico Foods, Ltd. (winding-up) Mammoth snake fly-catcher 573 Manager of shop (P. and P. Act) inquiries 800

Manchester College of Phar-macy Supp. June 18

Manchester Industrial Exhibition 34 tion 34
Manchester and North of England Optical Society 86, 260, 445, 586, 743
Manchester Pharmaceutical Association 160, Supp. Jan. 29, 295, 444, 597, 656, 712
Manchester Royal Infirmary deficit 277 Manchester Scholarships (see Pharmaceutical Society of Great Britain) Manganese detection (analytical note) 804 Mange in horses, treatment 99
Manhu Food Co., Ltd. (exhibit)
747, 827
Mann's Drug-steres, Ltd. (winding-up) 880
"Mansfield" changing box 575
Mansfield Pharmacists' Association Supp. Jan. 29, Supp. Mch. 5, 743 Manufacturers, direct trading by 866 Manures, books on 562 Map-supply, law-case 805 March, T. (death) 571 Marfitt, G. E., ou window-tickets Marion & Co., Ltd. (exhibit) 575
Marion, James, & Ker, Ltd. (removed from register) 763
Marks, H., & Sons (centenary) 157 Marlor, S. W. (death) 536 Marriages (see weekly eontents) Marriner, G. F. (death) 502, (will) Mars, theory of canals 429 Mars, theory of canals 4428
Marshall, J. (death) 384
Marshall, R. H. (deed of arr.) 140
Martin, A. L. (deed of arr.) 695
Martin, R. R. (death) 881
Martindale, W. H. (on organic arsenic compounds) 84
Marting Dr. C. A. von (inhiles) 882 arsenic compounds) 84
Martius, Dr. C. A. von (jubilee) 882
Maskew, W. (on old books) 174,
253, (lecture) 503
Masonic notes 98, 229, 284, 385,
435, 537, 572, 662, 698, 962
Massey (Chas.) & Son, Ltd. (debentures) 40, 283
Massogran 42
Massolettes (patent) 674, (price)
813 813 Massolin 167 Mastication, necessity for 761
"Mater" clinical thermometer 414 Materia medica, book 51
— teaching (Tschirch on) Supp.
Jan. 29
Matico, Thoms on 144 Matico, Thoms on 144
Matthews, 1. (death) 434
Mauritius, examination requiremeuts 627
Maw, S., Son & Sons (shop-fittings) 11 (cricket club dinner)
120, (list) 215, (rates) 346,
(transparent soother) 673, (exhibit) 698, (tablet machine)
698, (exhibit) 747, (catheter
steriliser) 784, (Scotland representative) 945
Maxim's "pipe of peace" 503 sentative) 943
Maxim's "pipe of peace" 503
Maxol, Ltd. (reg.) 762
May day date 854, 903
"May Queen" soap 673
May, Roberts & Co., Ltd. (New Year greeting) 42, (Hughes's syringe) 355, (list) 366, (hours of business) 672
May's "Apportioner" mixing-May's "Apportioner" mixing-machine 597 Maya Bulgare Co. (exhibit) 526, (agent) 573 Mayfield, J. T. (death) 961 Mayger, W. D. (death) 846, 881 Meals, resting after 773 Measures, bottles as 841 Measnring and weighing (book) Meat-extract, preparing 802
— and malt wine 594

Neota malt-extract 747 Neroli oil, Algerian 506 Nerve oil 494

Neutrex 057 New remedies (importing into Japan) 176, 166, 167, (Bocquillon-Limousin's book) 407, (Crinon's

National Pharmaccutical Society

Apprenticeship requirements 759 Chemists' prospects 918

Parks' litigation 761

NEW ZEHAND

Pharmacy Act cases 810

— Bill 413, 465

— Board 137

Neutrex 657

book) 481 New South Walfs:

June 25, 1910 Meat preservative, formaldehyde as 437

Medical Act prosecutions (see Legal reports, Medical Acts)

"Medical Annual" 514

"Medical Directory" 24

— electricity (books) 494

— exercises (book) 782

"Medical hall" as place-name 343

— jurisprudence (book) 782

— uan, advertising 523

— to become 683

— functions 460

— men, chemists as 108, 134, 207. -- Tunetions 400
-- men, chemists as 108, 134, 207, 269, 497, 598, 688, 689
-- officers' reports 756
"Medical optologist," use of title -and pharmacy ordinances (see name of country)

- practice in foreign countries
(report) 442 -unqualified (L.G.B.) 911 -- unqualified (L.G.B.) 911
-- profession criticised 454
-- qualification, obtaining 524
-- qualification, obtaining 524
-- Medical Register '9 441
-- terms, dictionary 274
-- Medicated wines (defined) 561, (hours of sile) 529, (use of) 528, (sale of) 903
-- Medicine (books) 844, 926 Medicine (books) 5-7,
— domestic, 274
MEDICINE-STAMP ACTS:
Absurdities of, 325
Apprenticeship, regular (see apprenticeship infra)

Breaking bulk 649, 754

Entire drugs (accto-salicylic acid) 31, (exempt) 574

Known, admitted, and approved remedies (Board of Customs letter) 32, (who may sell) 95, 202, 800, (apprenticeship requirements) 493, ("Quinine and steel wine") 683, (quinine wine as) 866, (apprenticeship indenture of sellers) 903

Labels and titles ("Pectoral mixture") 32, ("balsamic") 54, (Bronchial Balsamic Wafers) 95, ("Balsami") 129, ("Balsamic") 292, (balm and balsamic") 292, (balm and balsamic") 325, ("Balsamic Svrup") 492, (children's Comp. Pectoral Syrup) 129, ("Head powder") 237, (tonic) 305, ("weakness") 328, ("All Round Herbal Salve") 423, ("Digestive Mixture") 455, (mussage-eream) 561, (embrocation label) 683, (pick-me-up) 867, ("stimulates stomach," etc.) 903, (Dale's plaster) 937 Breaking bulk 649, 754 cation label) 683, (pick-me-up)
867, ("stimulates stomach,"
etc.) 903, (Dale's plaster) 937
Liability (medicated pockethandkerchiefs) 202, 423, 593
Possessive case (ed.) 290
Prosecutions (see Legal reports,
Medicine Stamp Acts)
"Regular Apprenticeship"
(must be in writing) 209, 218,
253, 267, 268, 550, (letter to
M.P.s) 365, 393, 495
Sale unstamped to Ireland 374
Selling by canvasser 343
Stamps, method of affixing 492
Unstamped medicines, selling
561, (see also Proprietary
Medicines)
Jedjeinal plants (in S. Africa) Medicines)
Medicinal plants (in S. Africa)
115, (growing and collecting)
179, 780, (Liberia) Supp. June 18
Medinal 166 Méglin's pills 165 Mellite de rose rouge, etc. (Codex) Mellor, J. (death) 384 Menley & James, Ltd. (exhibit) Mentha arvensis var. glubrata oil 357

oil 357
Menthol, effect on skin 397
— price in 1999-27
Mercalox soap 672
Minching Mirks Act;
Amendment 366
Inquiries 237, 423, 593
Memorial to Treasury 287
Merck, E. (inset) 143, (booklet)
456, (chemicals list) 784
Mercurial injections 85 430. (chemicals 183) 784
Mercurial injections 85
Mercury atoxylate for syphilis 215
— mines, life in 955
— nitrate ointment (Dunlop) 675
— iodide, assay in ointment 827
— solubility in oil 824

Mercury perchloride 500 Mercury perchloride 500

— poisoning 37, 286

— preparing (wet process)
Supp. May 28

— silver cream 235

Merson, G. F. (personal) 4

Mesmerism, Gregory's, 926

Meta's hair-tonic 92

Metabolised cod-liver oil (misbranding case) 761

Metal colouring frand case 805 branding case) 761 Metal colouring fraud case 805 Metcalf (Wilham) Ltd. (deben-tures) 72 Methyl alcohol, detecting Supp. May 28 May 28

— identification 824

Methylated spirit in hair-washes 540, 541, 576

— illegal sale 533

— permits (regulation) 440

— regulations (N.Z.) 102

— sale 529, 533

— use of 237 — use of 237
Methylating spirit, regulations 820
Metol developer 413
Metol-quinol developer 186, 684
Metropolitan Asylums Board
(drug-contract) 99, 391
Meyer Sander Dental Supply Co.
(exhibit) 672, (business purchased) 784 chased) 784
Microscope (book) 24, 274
Midland Pharmuceutical Association 3, 35, 119 262, 483
Midwives Act, in force 526
Mikado tollet paper 142
Mikania Guaco, Supp. May 28
Military pharmacists, etc. (see
Army pharmacists, etc.)
Mik analysis (books) 524, Supp.
May 14
— colouring 424 — colouring 424
— colouring 424
— defective, remedies 14
— of orris, 926
— preservative, hydrogen peroxido as 683 - sodium bicarb. in \$10 - souring in thundery weather 938 - sterilisation 576 - sugar, testing 492 - testing (book) 782 — testing (book) 782

Millar, A., & Co., Ltd. (meeting)
318

Millards, Ltd. (debentures) 107

Miller, A. (death) 961

Mills, J. A. (death) 354

Mills, J. J. (death) 284

Mills, J. J. (death) 284

Millward, F. (will) 320

Milne, A. (personal) 497

Milne, J. (presentation) 428

Mineral industry (lecture) 46

— waters fraud (France) 135

— tax wanted 348

Sce also Aerated waters

Minimax Consolidated, Ltd. (debentures) 215, 285

Minor Examination (see Pharmaceutical Society of Great Britain)

Minster Soap Co., Ltd. (rog.) 213

Mirrors, making 4,24

— how lettered 493

Missionary Exhibition (Birmingham) 907, (Edimburgh) 907

Mistletoe, use in medicine 15

Mist. benzoiui co. 52

Mitchell, N. W., & Sons, Ltd. (branded corks) 353, (stocktaking) 963

Mithridate 5

Mitsuik Co. (exhibit) 931 Millar, A., & Co., Ltd. (meeting) taking) 963
Mithridate 5
Mitsui & Co. (exhibit) 931
"Mitsumi Ko" mineral-water 931
"Mitsumi Ko" mineral-water 931
"Model" tooth-brush 156
Moelle de Bœuf purifiée (Codex) 13
Moissan as strect-name 313
Molecules in air, number 365
Moliubrochius's "Cochlearia euriosa" 175
Mond. A. M. (parl. candidate) 54, (portrait) 55, 76
Mond. Dr. L. (will) 34, (appreciation) 45 (will) 108
Montgomerie & Co., Ltd. (new premis's) 353, (report) 915
Month's notice, trade custom 8, 95, 754 Montreal College of Pharmacy (exam. results) 136, 691 Moon, Dr. R. O. (parl. candidate) Moore, E. (portrait) 195 Moore, Nettlefold & Co., Ltd. (reg.) 914 Moores, C. L. (druggists' sundries) Moran, W. J. G. (death) 814

N.U.A.P. (cont.):
Sheffield branch 485, 714, 743, 930
National Wholesale Druggists'
Association 7
Yauclea excelsa, assay 816
Navy pharmacists (Germany) 36
Negative, titling 575
Neild, R., & Sons (see Hill, Jas.)
Neopyrin 167
Neota maltestract 747 Morbicid 167 Morford, T. (death) 214, (will) 284 284 Morgan, J. (death) 746 Morison, T. B. (parl. candidate) 54 Morison's pill, note 41 "Morning dip" bath gloves 353 "Morning-dip" bath gloves 353
Morphine in India 580
— poisoning 482, 552, 591, 896, 944
— supply (Germany) 380
— test for 492
Morris, M. E. (will) 43
Mortgage inquiry 129
Moselev, F. (bankr.) 411, 634
Mosquito and disease (book) 514
"Mothers" thermometer 250
Motor-spirit duty, yield 663
— rebate forms 310
See also Fetroleum spirit
Month-wash tablets 130
Mu-Dar Ltd. (reg.) 141
Muellaye de gomme ((odex) 13 Nervo oil 494"
Nervous disenses (book) 161
Nestlé & Anglo-Swiss Condensed
Wilk Co. (exhibit) 670
Nets, preserving 650, 868, 937
Nettel cameras 575
Nenes Knlisyndikat,
(potash fertiliser) 609
Neuralgia treatment 123, 161, 299,
303 Mueilare de gomme (Codex) 13 Mühlethaler, Th. (greeting card) Muller, E. (artificial eyes) 610 "Multum in Parvo" toilet-cases NEW SOUTH WAIPS:
Assistants' Wages Board 244,
498, 690. (effect) 727, 874
Dentists Bill 101, 244
Examination requirements 624
Pharmacy Board 430
Pure Food Act (regulations) 101,
(interpretation) 430, (book)
481, (guarantee) 727
New Year greetings 16, 29, 42
— honours 2
NEW YORK:
National Pharmacoutical Could Mumbray, R. G. (personal) 572 Murdoch, D. (before G.M.C.) 855 Murray, O., & Co., Ltd. (agency) Murray, O., & Co., Ltd. (agency) 628

Musk, artificial 156
— exports (China) Supp. Jan. 22, (Shanghai) 199

Mispratt, M. (parl. candidate) 3, 54, 55

Mussoorie, pharmaey at 187

Mistard fields, visited Supp. June 4, 385
— oil, standards compared 400, 477, 491 491
Myake white camelia oil 931
Myeolvsine 943
Myddfai physicians 737
Myddleton's Ltd. (liquidation)
Supp. Jan. 29, 467. (reg.) 696
Myname Soap Co., Ltd. (removed from register) 763
Myopia, Laurance on 744
Myotsubaki oil 931
Myristic acid, to prepare 562 NEVUS TREATMENT 226 Nail-polish 270 Napoleon's pills 94 Nasal-catarrh snuff 868 Nastin in leprosy 70, 427

Chemists' Prospects 918
Examination requirements 624
Pharmacist' Conference 498
Pharmacy Board 498, 874
Wajiarapa C. & D. Association Newball & Mason (annual dinner) Newbery, F., & Son, Ltd. (tooth-brushes) 156, (Japyrole toilet-paper) 414 Newcastle-on-Tyne Pharmacists' Newesstle-on-Tyne Pharmacists'
Association 87, 294, 405, 584
Newcombe, S. P. B. (death), 434
Newfoundland Pharmacy Bill 657,
(Act) 793, (résumé) 887
Newsholme, G. T. W. (personal)
460, 527, 565, 597, (port. and
biography) 612
Nickel curbonyl (reaction) 893,
(uses of) 471
Nicolle, J. A. (death) 136
Nicotine, action on muscle 445
— funigant 494
— mfr. 562
— tax (France) 839
Nicotyl funicator 415, 748
Nighteall ancedote 860
Nightingale's nursing publications
938
Vitrate Products, 144, (c., 589) Nastin in leprosy 70, 427

Nytal:

Examination requirements 627

— results 38, 245

Pharmacy Board 28, 264

University College 567

Pharmaceutical Society 879

National Association of Ophthalmic Onticians 825

National Association for the Prevention of Consumption 865

National Association of Retail Druggists (attacked) 280, 383, 465, 478, 810

National Cash Register Co., Ltd. (dismissing department manager) 3, (law case) 246, 841, (libel) 553, 633, 694, (exhibit) 698, 747, (breach of warranty) 778, (law-cases) 945

National Chamber of Trade 84

National Dental Corp., Ltd. (reg.) 248 Nitrate Products, Ltd. (reg.) 762 Nitric acid poisoning 678, 792 Nitrogen, Ltd. (reg.) 412 Nitrogen from article (Crossley) 403, 429 Could be a supported by the could be Nitrogen from air, utilisation (Crossley) 403, 439
— sulphide, new 847
Nitrolime, mfr. of 404
Nits in hair, removing 123
Nobles & Hoare, Ltd. (reg.) 40
Nock, J. K. (death) 108
Noctona paper 575
— Nonex 'safety device 853
Norisco Toothbrush Co., Ltd. (reg.) 812
North, J. (death) 10, (will) 214
North British Rubber Co., Ltd. (vulcanite combs) 100, (Paris factory) 838
North-East Lancashire Chemists' Association 76, 532, 449, 677
North-Kent Chemists' Association 320, 550, 678, 736, 736
North Staffs. Chemists' Association 320, 355, 447
North-West Territories (see Allerta, Assiniboia and Saskatchewan)
Northampton Institute 435
Northampton Institute 435
Northampton Pharmaeists' Association 444, 677 " National Formulary" (revision) National Industrial Educational League 2 National Poor-law Officers' Asso-ciation 635 National Pure Food Association National Radium Bank, Ltd. (reg.) 73° National Radium Trust, Ltd. (reg.) 914, 915 National Union of Assistant Phar-macists 63, 226, 465, 515, 539, Supp. April 30, 713°, 210, 951 Birmingham branch 76, 330, 584, Bristol branch, 86, 797, 406 Cheltenham branch, 714, 753, 798, Glasgow branch 726 Liverpool branch 128, 160, 294, 485, 635 London branch 158, 333, 713 New astle branch, 366

Northern Aniline and Chemical Co., Ltd. (removed from re-gister) 915 Northern District Chemists' Asso-

ciatiou (see Cape Colony) Norway, pharmacy in 777 Norwegiau Chamber of merce in London 836

Merce in London 850 Nose, disinfectant 860 Notice to leave (law-ease) 8, (may be verbal) 95, 754 Nottebolm Skin Hospital, formulæ 926

Nottingham Antiseptic Perfumery

Nottingham Antiseptic Perfumery Co. (Buffo) 628 Nottingham Pharmaceutical As-sociation, Supp. Jan. 29. 294, 483, 584, 597, 725, 757, 825, 837, 871 Nova Scotia examination require-

ments 626 Novocain, importation forbidden (India) 349 Novocol 357

Novocol 357
Nugget polish, selling-price (law case) 281
"Nurse Margery" soothers 672
Nurses' prices (Queensland) 244
Nurses' Registration Bill 614
— training 64
Nursing, book on 24
Nursing Exhibition 672
Nut oil (see Arachis oil)

Nut oil (see Arachis oil)
Nutmeg oil, characters of 151
——standard 373, 399, 477
Nutrition (book on) 161

Nutrovin 672 Nyto Preparations, Ltd. (reg.) 467

OAK, FUMING AND STAINING 238 Ohesity (books on) 867 Obrecht, I. (death) 629 Odel Chemical Works (flask case)

Odvlis 167

Ogilvie, W. (creditors' meeting) 461

Oil and Ozokerite Co., Ltd. (reg.) Oil, to thicken 868

Oil, to thicken 868
Oils, essential (see Essential oils)
— fixed (see Fixed oils)
— various (see name of article—
e.g. lemon oil)
Ointments (B.P.) 447, 675
Old Fort Chemical Co. (Barkola Globes) 917
Oldaker, W., Ltd. (debenture) 318
Oldham, T. (will) 12
Oldham Pharmaceutical Association, 120, 158, 260, 333, 405, 517
Olds, G. (death) 214, (will) 384
Oleum olivarum acidum 855
Olive oil adulteration 420, 421, 569, 580 580

arachis oil in (Hackman on) 329

- crop (Crete) 235, (prospects)

-- crop (Crete) 235, (prospects)
126, (Spain) 682
-- exhibition 499
-- exports (Canada) 202
-- mineral oils in 270
-- "sublime," what is? 31
-- tests 722, 777
Oliver, G. E. (on S. Africa medicinal plants) 115
Olympic corn dots 672
Omega musk 813
ONTARIO:

ONTARIO .

Examination requirements 626
Pharmacy Act ameuded 691
Opera Omnia, Ltd. (reg.) 880
Ophal 506

Ophal 506
Ophthalmology (book) 24
Opium in B. of T. returns 396
— crops, report 899
— cultivation (India) 6
— effect on skin 397
— exports (Persia) 285
— habit cure 816
— imports, Ccylon 452
— monopoly (Straits Settlements)
6

Ordinance (Ceylon) 531, (Hong Kong) 541

— as pain-reliever 397, 439, 453

— paper on 446

poisoning (antidote) 384, 749, 840

o40

-- price in 1909 27

-- prohibition (W. Austr.) 38

-- revenue (1ndia) 385, 509, 580, Supp. June 11

sale (India) 386 suppression (China) 213

traffic, conference suggested 386

Oppenheimer, Son & Co., (atoxylate of mercury aseptules) 215, (damage by gale) 3 (award) 848, (med. ehest) 917 Optic nerve (book) 782 Optical bench 473

Optical Bench 475 Optical Federation 87, 367, 445, 586, 597, 611, 745, 786 (see also National Federation of Oph-thalmic opticians)

goods, ordering 23 - instruments (book) 782

— instruments (book) 782
— lantern, paper on 367
Optical Society 310
— titles (legal query) 95
Optician, frandulent 242
Optician's window attraction 42
Optician's Club Supp. March 5
Orange oil standards 341, 400, 477
— tariff (U.S.) 234
— peel, preparations (Boa on) 323
— tineture (Ph. Hung.) 18
Orange River Colony:
Beeswax and honey importation

Beeswax and honey importation regls. 245

Chemists registered 69, 70, 430, 463, 568

405, 508 Examination requirements 627 Medical and Pharmacy Board (conference) 6, 38, 69, 245, 382, 531, 568, 656, 690, 727, 774, 809 Poison schedule amended 69 Shop Hours Bill 6

Spirit, duty-free 774, (regulations) 568, 943
Trade of 943

Orchella weed supply 794
Orders, bogus (see Personation cases and Warnings)

Orders, curious 87, Supp. Jan. 29, 454, 641, 714, 761, Supp. June 18 "Ordo Rerum" at A. & N. Stores

Origanum oil (see Thyme oil)
Original Antiscptic Pastille, Ltd.
(debentures) 812
Ornithogalum thyrsoides, Jacq.

Ornithogalum (Power and Rogerson on) 403 Orr, R. (before G.M.C.) 855 Orris tingture 96

Orris tiucture 36
Orudone 573
Ortwold, Prof. W., on heredity 83
Otago Pharmacopeia (review) 51
Otto of Rose (see Rose oil)
Ough, L. (death) 319
Outem Corn Remedy Co. (show-case) 505
Ovaradentriferrin 167
Ovules, preparing (Codex) 13
Owbridge's, Ltd. (exhibit) 698, 747
Oxalic-acid poisoning 57, 66, Supp. Feb. 26, Supp. Heb. 5, 678, 699, 749, 792, 814, 896, 936
"Oxy" as prefix, meaning 518
Oxygar 167
Oxygar inhalation apparatus 252
Oxygar inhalation apparatus 252

Oxygen inhalation apparatus 252 Ozono Purification Co., Ltd (struck off) 953

P.P.P. CHEMICALS 544 Pacific Nitrate Co., Ltd. (receiver) Paget Prize Plate Co., Ltd. (ex

hibit) 575 Pain, relief of 397, 439 Paine & Co., Ltd. (exhibits) 698,

Paint-remover 650 Palin, W. H. S. (death) 846 Panthal 167

Panthal 107
Pantopon 167
"Papaver somniferum," in prescription, 967
Papier Poudré, Ltd. (inset) 143,
(cxhibits) 698, 747, (law-case)

912, 946
Para plejapyrin 167
Paraffin oil, to colour 494
— ointment (Ph.G.) 402, (Dunlop

-wax statistics (U.K.) 775
Paraguay, proprietary medicines
in 462

Parasitology (book) 641, (leeture)

69
Parat, M., charge against 313, 349, 381, 462, 689, 873, 910
Parathyroid extract, price 189
Paregoric law-case 237
— origin of 217
— what is? 236
Pare's "Workes" sold 378
Paris Dy LAA (soft en) 768

Paris, Dr. J. A. (note on) 768 Academy of Sciences 381

Paris (cont.):
Assistants' club 530
British assistants in 164 British Chamber of Commerce

Closing time of pharmacies 873,

Closins 1432 943
Faculty of Medicine 69
Floods 208, (relief fund) 204, 243, 244, 381, 689
Galen Club 68, 244, 313, 381, 454,

Hospital pharmacy service 566 Medical curriculum reform 910 Municipal Laboratory 68 "Perfumc Palace" closed 839 Pharmacy Students' Association

School of Pharmacy 155, 462,

(statistics) 599
Society of Pharmacy 135, 4
Students' Associations 135
Typhoid statistics 689

Typhoid statistics 689
University bequest 499
— Council 461
"Parisien" chocolate 895
Parke, Davis & Co. (novelties) 157, (booklets) 215, (crude drugs) 303, (exhibit) 431, (tetamus serum) 544, (exhibits) 672, 747, 743, (tooth-paste tube) 704, (lab. vicited) 370

visited) 930 Parke's Drug-stores, Ltd. (report)

9. (competition complaint) 4
49, 94, (dividend) 570
Parkinson, P. R. (death) 846
Parkinson's pills (law-case) 532 Parliament:
Course of business 437, 958

Dissolution 75 Election 3, 11, 35, 53, 75, 112, 121, 128, 229

Members of (book) 248 Opening 336 Outlook 576

Rc-assembles 287, Supp. May 14, 882

882
Parliamentary candidates 3, 11, 35, 53, 75, 112, 121, 128, 229
Parliamentary representation for pharmacists 204, (Gaddon) 373, 453, 491, (letters) 522, 539, 560 (see also Pharmacists' Representation Committee)

tation Committee; Parry, A. (will) 108 Parry, E. J. (on liquorice-juice) 21, (on peppermint-oil adulte-rant) 295, (on B.P. as legal stan-dard) 512 Portsyrby with mountified men

dard) 512
Partnership with unqualified man
343, 374, 649
Pas-avena, note on 824
Pass, W. J. W. (death) 384
Paste for labels 455

Pasteur Institute, report 943 monument 910

Patchouli oil, characters 151

— Java, researches 542
Patent medicines (see Proprietary

medicines)
Patent specifications, published 321, 504, 674
Patents Act: Compulsory working (book) 782
Prosecutions (see Legal reports,

Prosecutions (see Legal reports, Patents Act)
Working in U.S. 39
Patents in Hungary 567
Paterson, J. (appreciation) 226
Paul, Dr. B. H. (personal) 195
Peach-kernel oil, labelling 29
Pear-leaf blister-mite 928
Pearce, F. C. (death) 455
Pearce, W. (parl, candidate) 55.
(cvidence before P. of L.A.) 408
Pearl tooth-paste 414
Pears, A. & F., Ltd. (inset) 143,
(dividends) 412, (offer to Government) 526

ment) 526 Pearson, Wm., Ltd. (debentures)

571

Peck, H. R. (slandered) 38, 727 Pel-ha Mel Snow 870 Pell, J. (death) 384 Pellagra inquiry 241, 276 Pellagra inquiry 241, 276
Penang, planraey at 186
Penberthy, H. B. (deed of arr.) 762
Penman, E. W. (deed of arr.) 842
Pennyroyal oil, adulterant 151
Pentney, J. C. (personal) 698
Pepper adulteration 938, 958
Peppermint oil, adulterant, new
293

-Bush on 719 — - characters 151 - price in 1909 27 Peppermint oil standards 341, 399. 477, 491 — Syrian 826

-- Syrian 826
Pepsin elixir 85
Percentage solution (dispensing note) 937, 968
Fercolation by heat 583
Percy & Sons, Ltd. (reg.) 141
"Perfect" chest-expander 749
Perfect Food Co., Ltd. (struck off) 812
"Perfection" sean trade-mark 841

"Perfection" soap trade-mark 841 Perfume basis 938 Perfumers' Association (U.S.) Supp. May 14

Supp. May 14
"Perfumery and Essential Oil
Record" 157

Record " 157
Perfumery tax (Argentine) 148
Perfumes in plants (Charabot's book) 820, (Bacon on) 955
— sale by florists 5
Pergenol 167
Perken, Son & Co., Ltd. (" Mater " clinical) 414
Perkin's "Qualitative Chemical Analysis" 844
Perkins, Ltd. (mortrage satisfied)

Perkins, Ltd. (mortgage satisfied)

Personalty of estates, what is? 95

Personalty of estates, what is? 95 Perspiration, excessive 801 Peru balsam as bactericide 152 ——pomade 926 Peterborough Association of Pharmacists 350, 333 Petitgrain oil exports (Paraguay) Supp. Jan. 22 —production (Paraguay) 199 "Petrel" ammonia 827 Petrel acquiring 494

Petrol, colouring 494
See also Motor spirit and Petroleum spirit Petroleum discovery (Natal) 38

— emulsion, preparing 968 — Spirit Committee 133, 240, (re-

port) 852 - licences when required 894

- Reences, when required 634
- uses of 852
See also Benzine, Motor spirit,
and Petrol
Peyton, R. (death) 814

Pharmaceutical Conference (sco British Pharmaccutical Conf

British Pharmaceutical Conf.)
— education (in S. Africa) 600, (obtaining) 665
— qualifications, evolution 647
— reform (Grier on) 470
PHARMACEUTICAL SOCIETY OF AUSTRALASIA 498, 909
PHARMACEUTICAL SOCIETY OF CAPB COLONY 70, 314, 382, 568, 760, 874, 944
PHARMACEUTICAL SOCIETY G. B.:

PHARMACEURICAL SOCIETY G.B.;

Annual accounts 542, 548
Annual accounts 542, 548
—meeting 776, 787. ("Xrayser"
on) 817, (ed.) 818
—report 708
Calendar 161
Cartificates of cartification (account)

Calendar 161
Certificates of qualification (see separate entry)
Council criticised 332
— clection 331, 516, 547, 585
— (portraits) 612, 655, 677, 698 (cartoon) 709, (letters) 729, 741, (competition) 821, (letter) 798, (result) Supp. May 21,

894, 936

894, 936 - meetings 44, 77, 223, 356, 546, 706, 856 - prizes 547 Criticised 31, 332 Curriculum, compulsory (ed.) 618, 631

Establishment 361 Evening meetings 257, 258, 271, 403

Examinations criticised 491, 507 Examinations efficience 361 of the Visitors' report 224
Major examination pass-list (Edinburgh) 584, (London) 610
Membership 818
Minor examination certificate 866

-- eriticised 88, 111, (letters) 200, 236

200, 256
— experiences Supp. Jan. 8, 88, 129, Supp. Jan. 22, Jan. 29, Mch. 19, April 2, 584, Supp. May 28, June 4, Supp. June 18
— pass-list (Edinburgh) 88, 588

- (London) 88, 610 Organisation meeting 406

Pharmaceutical Society G.B. Phatolene Co., Ltd. (reg.) 467
(cont.):
Pereira medal award 707
Phenacetin, harmless 221 Pereira medal award 707 Preliminary examination quirements 493

Prosecutions (methods) 792 (see also Legal reports, Pharmacy

Acts)

Acts)

Registrar's report 223, 253

Re-organisation suggested 63

School of Pharmacy 334, Supp.

Mch. 5, (prizes) 858, Supp.

June 25

June 25
Shop inspection 911
Visitors' report (Edinburgh) 224
(See also Pharmacy Acts, Poisons and Pharmacy Act, and Legal reports, Pharmacy Acts)
PHARMACEUTICAL SOCIETY OF IRE-

LAND:

LAND:
"Calendar" 207
Council-meetings 224, 402, 574, 735, 892 Examination conditions 593

Pharmaceutical Assistants' examination pass-list 100

— licence exam. pass-list 100, 610

Preliminary examination pass-

list 77 Registered druggist exam. pass-

list 100, 611
Schools, recognition 42, 574, 615
Pharmaceutical Society of Natal 38, 464

38, 464
Pharmaceutical Society of New South Wales 37, 727, 874
Pharmaceutical Society of Newfoundland 813, 887

PHARMACEUTICAL SOCIETY OF ORANGE RIVER COLONY 656 PHARMACEUTICAL SOCIETY OF THE

TRANSVAAL 279, Supp. Mch. 5, 382, 600, 760

Pharmacists, legal responsibility 484 - origin of 217

- position in Germany 492 - position in Germany 497
- in public institutions 256
PHARMACISTS' PARLIAMENTARY RepRESENTATION FUND 204, 341, (Gadd on) 373, 453, 491, 522, 550 (see also Parliamentary representation for pharmacists)
Pharmacology Lectures sur-Pharmacology gested 421 lectures

Pharmacopæia (see British Phar-

macopesia, etc.)
Pharmacy (Arny's book) 783
Pharmacy Acts:

Amendment decided on 363 (see also Poisons and Pharmacy Act)
"Analytical chemist," use of

title 903 Certificates of qualification (see

separate entry)
"Chemists' sundries," use of expression 903
Executors, unqualified 957

Partnership questions 343, 374,

Poison sale (see Poison-schedule and Poison-sale)

I rosecutions (see Legal reports, Pharmacy Acts)
"Wholesale chemist," use of title 269
"Wholesale descriptions"

"Wholesale druggist," use of

title 649 Wholesale trading 903 Widows "Clause" 754

See also Poison and Pharmacy

Pharmacy Bill, proposed 75. 86, Boards (see name of country)

- Boards (see name of country)
- and chemistry relationship 446
- evolution 405
- future of 3, 29. (Grier) 470, 507
- in Great Britain (German view) 737
- history of 159, (book) 704
- jar, sale 596
- Ordinances (see name of country)

eountry)

country)

- as place-name 86, 202, (N.Z.)
244, (Idris on) 256, 261, (Runciman on) 261, (Whittaker on)
261, (ed.) 326, (Young on) 326,
335, (N.Z.) 498, (N.E. Lanes)
332, (Ph. Soc. on) 356, (ed.) 363,
(discussion) 445, (Neathercoat

on) 485
— signs. in Holland 191
— uplifting 405

Phenazone and tr. quin. mixture (dispensing) 517 Phenol for fennel 669 amm. Phenor for Tenner 609
Phenorstal 167

Phonix, legends of 773, 833, 849 Phosiron 167 Phosphate, iusoluble, detecting

Phosphates, analysis, 825 Phosphaturia, cause 958 Phosphora 526

Phosphorised oil (Codex) 13
— quanine and iron tonic 456, 683 Phosphorus paste, preserving 493 Photographic developers, adv. idea Supp. May 28 (patent-case) dry-mounting 350, 466

350, 466
Photographic exhibition 575
— factory in Japan 185
— paper (patent) 473
— printing frames, exhibition 240
— stock, keeping 173
— survey 473

- survey 473
Photography in colours (see Colour photography)
- pictorial (book) 844
Photometry (book) 926
Phthisis (see Tuberculosis)
Phymochrom 167

Physical constants, new determinations 782
Physics (book) 274
Physiological action and chemical structure, relation 483 Phyto-chemistry 147

Phyto-chemistry 147
Piano-keys, cleaning 343
Pickup, J. H. (death) 214
Pieric acid stains, removing 293
Pierre divine (Codex) 13 Pig. convulsions treatment 524
Pigeons (books on) 867
— megrims in 492, 522
Pile-ointment 684

Pilewort 559, 577

Pills, popularity (" Xrayser" on)

use of 48 Pilocarpine hair lotion 202
Pilocarpus microphyllus,
loidal content 216

Pilulæ colæ co. 855 Pilulæ ante cibum 13

Pilules ante cibum 13
— de carbonate ferreux, etc. (Codex) 13
— Ecossaises 13
— of French Codex, formulæ 165
Pimento oil (Bush on) 719
— standard 373, 400, 477, 491
Pindar, J. W., & Co. (list) 544
Pine oil 152, (standards compared) 400, 477,

a. Finene, variety 22 β Pinene 22

Pinene, preparing Supp. May 28 Pineptia Antomatic Disinfector Co., Ltd. (reg.) 880 Pinhole test 23 "Pino" handkerchiefs 74 Pinoxic Syndicate, Ltd. (inset)

Pinus palustris oil 152 Pioneer Teeth Institute, Ltd. (reg.) 634

"Pipe of Peace" Maxim's 500 Pirelli, Ltd. (inset) 143, (exhibit) 1 itt, T. (appreciation) 354

Pituitin 157
Piutinol 109
Plague treatment 640
Plant-cell (book) 844
— discases (book) 926
— ecology lecture 294

perfumes 820, 955 Plants, formaldehyde in Supp. Feb. 5

- medicinal (see Medicinal plants)

plants)
Plasmon Syndicate, Ltd. (dividend) 635
Plasticine, composition 493
Plateikum 657
Plate-glass, polishing 493
Platieau folding stand 745

Platinum refining (Russia) 551
Pleistopon 167
Plymouth, Devonport and Stonehouse Chemists' Association

(Junior Section) 87, 226, Supp. Mch. 5, 485, 584, 711, 859
Poetry (see Rhymes)
Loison-bottles ("Daily Mail" on)
85, (use of) 682

ob, (use of) 082

- book, producing 937

- cartoon from "Punch" 217

- cupboard, dangers of 201

- labels, firm-names on 665

- laws (U.S.) 137

POISON-LICENCES:

Applications 23, 78, 98, 153, Supp. Jan. 29, 222, 251, 280, 324, Supp. Mch. 5, 419, 437, 470, 511, 548, 576, 641, 664, 705, Supp. May 14, 793, 860, 895, 928, 644 Supp. 2 928, 944

928, 944
— considered 25, 78, 222, 251, 511, 814
— granted 40, 222, 280, 324, 409, 510, 511, 576, 641, 664, 765, Supp. May 14, 793, 614, 280, Supp. Meh. 5, 944
— refused 664, Supp. May 14, 860 Companies' position 947
Co-operative societies application 866

Useussions and opinions (Holmes) 2. (Richards) 510, (Ph. Soc.) 546, (N.B. Branch) 675, (Iroumongers' Fe tion) 837 Inspection of premises 280 (Iroumongers'

Inspection of premises 280
Inspections appointed 251, Supp.
Mch. 5, 409. 860, 895
Objections 324
Privy Council's letter 942

Prosecutions (see Legal Reports: Pharmacy Acts)

Pharmacy Acts)
Renewals 1, 23, 222, 280, 437, 576, 641, 705, Supp. May 14, 793, 814, 860, 895, 928, 944
— refused 928
Responsibilities of 667
Poison-regulations, extending 363, 393, 442 Poison sale to children 678

— inquiries 343 — in Germany 758 — Gilmour on 118

- Uniform of the Control of the Cont

is? 692, 702

Poison Schedule: Carbolic-acid preparations 511,

517 Discussions (Meldrum) 677 Eularging 647 Inquiries 129, 343, 422, 423, 432, 722, 754 Stavesaere ointments, position 904, 937

Veratrine preps., position 904,

See also Poison sale
Poison storage ("Hospital" on)
115. (method) 237

Poisoned grain (selling) 423, (law case) 533

Poisoning (book) 782

— cases (Australia) 498

— (see also name of poison)

— prevented by chemist 497

Poisons, labelling (ed.) 616, (Brown on) 720

I OISONS AND PHARMACY ACT:

Orsons and Pharmace Act:
Amendment suggestion 111, 145,
287, 395, 614, 682
Certificate of qualification (see
separate entry)
Discussions and opinions (Gadd)
226, (Hill) 295, (Hobbs) 297,
(Gilmour) 367, (Broadhead)
405, (Manchester) 444, (N.B.
Branch) 677
Firm-manes use of 834

Branch 677
Firm-names, use of 834
Legal aspects (Lane on) 636
Licencee delegating powers
(law-ease) 875 Poison-licences (see separate en-

(ry)Poison schedule (see separate en-

try)
Prosecution, methods of 792 Prosecutions (see Legal reports, Pharmacy Acts) Reciprocity clause 621

Shop-management (see Manager) Title, use by unqualified person 593

Unqualified persons, effect on 268

Wholesale trading (see separate

entry) See also Pharmacy Acts, Phar-

See also Pharmacy Acts, Pharmaceutical Society of Great
Britain, and Pharmaceutical
Society of Ireland.
Polonium, isolation 279, 309
Pom, Ltd. (reg.) 213
Pomeroy, Ltd. (exhibit) 748
Pomade aux essences (Lucas-Championnière) 926
Pommades of French Codex formule 165
Pond. Geo. P., & Son. Ltd. (divi-

Pond, Geo. P., & Son, Ltd. (divi-

dend) 72 Poole (Francis), Ltd. (reg.) 501 Poole, J. (death) 536 Poor Law Commission (See Royal

Commission ou Poor-laws)

- — dispensers — Association wanted 453 — pharmacists, need for 678 Pope, W. J., ou crystal-structure 638

Poppea Cremé Poudré 143 Porter, J. W. (personal) 698, 754 Portland cement, hydration pre-ducts 710

ducts 710
Porto Rico trade 855
Portsmouth, Flora of 446
Portsmouth Pharmacists' Association 87, 295, 446, 636, 683, 711
Portsmouth Technical College 636
"Poso" clectrical massage 747

Portsmouth Technical College 636
"Poso" clectrical massage 747
Post, breakages in 304
— master, chemist as (U.S.) 39, 497
— offices, hours (H.C. quest.) 457
— shopping by 29
Postage reduction (Malay) 204
Postal rates (France) 429
— service on Sundays 34
Postlip Mills (inset) 143
Potash as fertiliser 609
— industry (Germany) 758
— mines (Germany) 256
Potassium bichromate poisoning

Potassium bichromate poisoning 66, 591 — bromid.

and sodii sulph. (re-- carbonate exports (Russia) 936 - chlorate, action of sulphuric acid on 847 action) 518

-—and ethyl nitrate mixture (dispensing) 480 -—poisoning 552

- cyanide mfr. 46

- cyanide mir. 40
-- not hort. poison 867
-- poisoning 57, 206, Supp. Feb. 5, Supp. Feb. 12, 286, Supp. Feb. 26, 482, 500, 630, 678, 749, 792, 814, 840, 936, 944
-- as soil fumigant 482

— iodide and hydrobromic as mixture (disp. note) 478, 480 — mercuric iodide properties 3 - permanganate poisoning 840 test 308, 782

- permanganate poisoning 840 - test 308, 782 Pote, S. R. (death) 73 Potter & Clarke, Ltd. (Simro's business) 42, (seed-trade) 74, (seeds) 156, (Kasbah kidney cure) 573, (herbarium prize) Supp., Ap. 30 Potter & Moore's lavender water

142

142
Pound, H. W. (death) 214
Powell, T., Ltd. (retail business sold) 882
Power and Rogerson on Ornithogulum thyrsoides 403
Power and Salway on red clover flowers 273
Prebble, W. (death) 10, (will) 284
"Prescriber" 110, (officet 428
Prescribing chemists ("Xrayser" on) 849
—risks, coroner on 528

- risks, coroner on 528
Prescription, Burmese 177
- problems 58, 116, 299, Supp.
Mch. 19, 475, 543, 639, 772, 896, reading (book) 274

- reading (book) 2/4
- by telephone (law case) 585
- writing ("World's Work" on)
50, (book) 641
- for packed goods (Germany)
246

- newspaper 305 - newspaper 200 - proprietary ingredients in 268, 296, 305, 342 - repeating (Hungary) 18 Preservatives in food (lecture) 276, (U.S.) 761

Prestola Chemical Co., Ltd. (reg.)

Preston, Job (personal) 35

78 Preston Chemists' Association 297, 712 Preventives, exhibiting (law-case) Price, J. H. (death) 571
Price-maintenance 406, (law-case)
410. (systems) 444, (law-case) 410, (systems) 444, (law-case) 655 (see also Price-protection, Prices, regulating, and Proprie-tary Articles Trade Association) Price-protection (French scheme) 260, (discussion) 261, (coupon system) 330, (Huddersfield) 554, (inadequate profit) 682 (see also Price-maintenance supra)
Price's Patent Candle, Ltd. (dividend) 248, (report) 433, (exhibit) Prices, regulation of 117 Priestley riots recalled 378
Prince Edward Island examination requirements 626
Printing ink (book) 274, (removing) 904 Printing-out-paper (patent) 473 Prison Commissions, tract 470 Pritchard & Constance, Ltd. (reg.) 283, (debentures) 352 Probiline 167 Prison Commissioners, drug con-385, (personal) 537 Professionalism and trade in pharmacy 859 Profits, calculating 773

- decline 117 - decline 117 - reckoner (book) 24 Progressive Rubber Co., Ltd. (debentures) 40, 213 Proponal 166

Proprietary articles (co-operative mfr.) 406, (Nat. Chamber of Trade) 844

Proprietary Articles Association of Canada 382

PROPRIETARY ARTICLES TRADE ASSOCIATION: Additions 156, 320, 469, 672, 813, 963

Annual election 34 Council meeting 159 Profits, iuadequate 682, 701, 721,

Year-book 285 See also Price-protection and Price-maintenance

Association Proprietary America 824

PROPRIETARY MEDICINES: American Medical Association on 601

Australia 208, (import regula-Australia 208, (import regula-tions) 255 Books on (Aberdeen library) 68, (Gardette) 888 Canvassers' methods, warning 677, 859

Cheurists' attitude towards 118 Committee suggestion 287

Coroner on 206 Cost of 37

Discussions and Opinions (Dixon) 221, (Bronte on) 331, (Cardiff) 331, 364, 393, 686 (Russia) 136 Formula

(Russia) 488 General Medical Council on 815 Lucredients indicating 38 (Russia) 136 Japan law 845

Medical attack on 280
Paraguayan regulations 462
Poison in 38, 657, 968
Prices (Germany) 246
Regulating sale (Japan) 500
in Russia 103, 137
Sale, checking 531
Tax in C.C. 38, 245, 314, 567,
839 (see also Cape Colony and

Pharmaceutical Society

Pharmaceutical Society of Cape Colony)
Tax (Japan) 246, 381
Trade (Japan) 6
Propyron 167
Protal, Ltd. (reg.) 282
Protoplasm study, prize-award

Provincial U.R. Druggists' Association 365, 373

Prunus Scrotina, constituents 846

Prussic acid (see Hydrocyanic

acid) Pryce, G. A. (death) 460 Pscriasis treatment 424

Psycho Therapentic Society, Ltd. Psycho Therapentic Society, Ltd. (reg.) 141
Psycho-therapeutical Hospital 654
"Public Health Service Directory and Year-book" 514
Public Pharmacists' and Dis-

Public Pharmacists' and I pensers' Association Su Jan. 29, 257, 330, 517, 550, 677 Puerperal-fever mortality 294 Pulque, McEwan on 446 Pulv. asari co. formula 517—zinci adipatus 855
"Punch's" cartoons 192, 217, Purch 4, 560

Punch's " cartoons 192, 217, 287 Puppy-food 650 Pure Foods Exhibition 827 Pusch, T. (death) 435
Pusch's test for citric acid 324, (modification) 583
Pyrogallol staius, removing 293

Qualification certificates (Certificates of qualification) Quassia spray 928

Quebec examination ments 626 "Queen's Closet Opened" 175 QUEENSLAND:

QUEENSLAND:
College of Pharmacy (report)
244, 498, 690
Examination requirements 624
Pharmacy Board 431
Pharmacy in 62, 79
University Act 430
Quelch, H. C., & Co. (theft from)
206, (Syracuse bdges.) 285,
(Eourjois Java powder) 848, 917
Onicksands cause of 288

Quick-sands, cause of 288 Qnicksilver (see Mercury) Quillain as hair-wash 868 Quinicin 745

Quinidine required 371 Quinine acetyl-salicylate 167 and atropine eye-drops (disp. note) 374

Indies

note) 374

- auctions, Java 340

- consumption in E. In Supp. May 14

- duty (Ceylon) 810

- exports 82

- factory (Java) 556, 646

- importing (India) 963

- and phosphorus touic 376

- pills, analysed 528

- price in 1909 26

- report 127

- sole in Errench Colonies 279

- sale in French Colonies 279

- sale in French Colonies 279
- speculation 47
- statistics (Boehringer's) 93
- supply (Antigua) 136, (British Guiana) 246
- tablets, duty-free (India) 963
- wine (window show) 171, (assay) 296, (sale by unregistered persons) 754, 866
Quiusy powder 493

R.M.D. SYNDICATE, LTD. (reg.) 843 Rabbit-snuffle lotion 868 Rabbit-snime 10tion 808
Rabelais, statue 556
Rad-Sal, Ltd. (reg.) 634
Radeliff's "Prescriptions" 175
Radermaeher, C. J. (port.) 883
Radford, J. A. (personal) 3
Radio-activity, Cameron's bo Radio-activity (laboratory) 244,

(Institute) 499
Radium Bank of Great Britain 98
— bromide loss 240, 276

- cmanatiou, actiou on ammonia

extraction in England 416 — how stored 837 — Institute 499. (Vienna) 136

— lecture on 119
— loss of 240
— purchase 496

rate of degradation Supp. Feb. 5

searcity and price 836
spa at Trentwith 204
theft 429

- therapy (book) 816 - watches 746 "Radius" meaning,

"Radius" meaning, in agree-ments 937 Railway rates (book) Supp. May 14. (C. of C. denutation) 767 14. (C. of C. deputation) 303, (memorial) 204 Raimes & Co. (list) 109, (bron-chial wafers) 320

Raimes, Clark & Co., Ltd. (dance)

Ramsay, Sir W. (personal) 108,

Randall & Son, Ltd. (s.v.m.) 503 Ransom, F. (personal) 917 Ransom, F. (personal) 917 Ransom, Dr. W. R. (2011) W. B. (memorial)

Ranunculus ficoides 559, 577 Randiculus neordes 559, 577 Raphaels, Ltd. (window attrac-tion) 42, (bifocal trial set) 156 Rat poison (letter) 560 Rato assessment (inaniry) 269

ate assessment (inquiry) 269, (appeals) 423 Rateable value, how determined

Rates, liability for 754 Rational Remedies, Ltd. (winding-up) 40, 105, 141, 213, 433, 732, 915

915 Erwelins & Scm (Ultramarine), Ltd. (reg.) 412 Rayleigh, Lord (personal) 135 Razorless Shaving Soap Co., Ltd. (removed from register) 915 Read Holliday & Co., Ltd. (ex-bibit) 755 hibit) 765

Rechpts, Spon's 641 Rechenberg's "Dio ätherischeu Oole" 776, 782 Reciprocity, Imperial 618, 621,

655 on) 69, (N.Z), (Queensland) 759, 874, (N.S.W.) 892

874, (N.S.W.) 892 Red ball trade-mark 143 - cross night-light 433 Red Cross Soap-extract Co., Ltd. (reg.) 107 Red Sea Oilfields, Ltd. (reg.) 72

Red-water cure 801 Redio polishing cloths 697 Redwood, I. (death) 537 Reeve, J. (death) 502 Reeves, H. (deed of arr.) 634 Reeve's Chemical Sanitation, Ltd.

(winding-np) 72

(winding-np) 72
Reflex camera patent case 105
Refractive indices of essential
oils 178, (how taken) 442

oils 178, (how taken) 442 Refrigeration (book) 24 (see also Ice-making) Regan, E. J. (before G.M.C.) 854 Registration of forms, Bean ou 299

259
Regulin Syndicate, Ltd. (reg.)
467, 628
Reid (Lady) Medical Aid
Society, Ltd. (reg.) 535
Reilly et Cie (list) 555
Reitmeyer & Co. (Geka agency)
74, (exhibit) 557
Pemington, J. 1. (caricature) 847
Remnant, J. F. (parl. caudidate)
56

Remsen, Prof. 1ra 901 Renal colic, treatment 376 Renalina 167

Renalina 167
Renfel's vitality pills (passing-off cuse) 102
Rerearch chemists ("Xrayser" on) 325
Resorcin lotion 926
- melting point 572
- reaction 782
- stieknoweds 926

stick-pomade 926 Restaurant as pharmacy side-line

799
Restraint of Trades (Shops) Bill 576, 614, 882
Retail-traders' difficulties 294
Reuter, R. J. (ezonator and folding Etna) 156, (price-list) 415, (aluminium goods) 628
Review of books (sce name of author or subject)
— of markets in 1909 26
— of past 50 years 12
Rexall products 39
Réunion essential ails 900

Remnion essential oils 900 Reynolds & Branson, Ltd. (deben-tures) 763

Revnolds & Branson, Ltd. (list) Rhengout Medical Syndicate, Ltd.

(removed from register) 915 Rhenmatism, applications for 438 — bath-salts 96, 343 — paste 493

— powder 684 Rhodallin 166

Rhodallin 166
Rhubarb exports (China) 192
Rhymes ("Life's Little Compensations") 14, ("Councillors") 534, ("Egg Emulsion") 522, ("Adventures and Excursions") 580, ("Ut Antea") 821
Rice, composition (book) 24
Richardsou & Co. (deed of arr.) 351

Record's pills 165 Ridgill Mfg. Co., Ltd. (deben-tures) 556 Ridley, T. (port. and biography) 612, (Council candidate) 635,

612, (Council candidate) 635, 662, 712
"Rigi" chocolate 895
Ringworm in cattle, ointment for

684

- cure 344

— cure 344
— sassafras oil for 252
— treatment by x-rays 837
Rinking carnival, chemists' costume 847
Riveris talcum powder 746
Roberts, E. (death) 765
Roberts, J. P. (death) 526, 565
Roberts, R. (death) 284
Robinson, R. A. (portrait presentation) 250, (personal) 385
Robinson, S. (death) 697
Robinson, W. B. (portrait) 322
Robinson & Sons, Ltd. (exhibits) 672, 748
Robson, N. W. (deed of arr.) 351
Robson, N. W. (deed of arr.) 351

orz, 748 obson, N. W. (deed of arr.) 351 ocks and river-water analyses, correlation 742 Robson, Rocks

Roger and Gallet (foundation)
873 Rogers, T. A. (before G.M.C.)

854

Rogerson, W. J. (death) 734 Rogerson, W. J. (death) 734 Roman Solvene, Ltd. (reg.) 501 Roosevelt, T. (visits London) 836 Ros Solis, etymology 111 Roscoe, Sir H. E. (personal) 917 Rose de Chiraz perfume 749 Rose-geranium oil (see Geranium

Rose of Lancashire perfume 672
Rose oil (prices) 61, (standards)
341, 400, 477, 491
Rose-opaline 745

Rose-water ointment (Dunlop on)

Roseau de Cologne 746 Rosée du Harem 926 Rosemary, etymology 111

--oil standards 341, 460, 477

Ross, A. (death) 662

Roumania pharmacy concessions

Ronp, etymology 577 Ronre-Bertrand Fils (bulletin)

Rouse & Co. (exhibit) 672 Rowell (Robert), Ltd. (reg.) 843 Rowell, T. B. (deed of arr.) 351 Rowland, L. B., & Co. (centenary)

Rowsell, P. F. (port. and biography) 612, (Council candidate) 655, 755, 835
Royal Academy pictures 900
Royal College of Physicians

oyal College of Physicians (admit women) 686, (president) 469

Royal College of Surgeons (admit women) 756 Royal College of Veterinary Sur-

geons 836 Royal Commission on Poor Laws (medical relief) 276, (lecture)

Royal Commission on Viviscetion

Royal Faculty of Physicians and

Royal Faculty of Physicians and Surgeons, Glasgow 4
Royal Institution 354, 378, Supp. Meh. 19, 638, 686
Royal Photographic Society 906
Royal Society (fellowship candidates) 346, 445
Royal Society of Arts 222, 262
Royal Society of Medicine, new premises 204
— Therapoutical Section 686.

Therapeutical Section 686, 725 (see also Therapeutical Society)

Society)
Royal Warrant holders 34
Rubber analyses 938
— auction sales 388
— books on 782, 938
— Continental market 389
— continental market 389

cultivation, effect (ed.) 395
exports, Brazil 439 - goods, price 429, (Germany) 531 - growing (Jamaica) 397

- latex coagulant (law case) 61,

- lecture on (Schidrowitz) 549
- price fluctuations 390

- stamp ink 130 - statistics 549

- substitutes (ed.) 19, 906

Rubber synthetic (ed.) 19, 490, 549, 556, 619, (Pickles on) 742 — thread, coating 375 -trees fertiliser 811 - varietics 387 - varieties 387 Ruddock & Co. (inset) 143 Rue, etymology 577 Rugg, W. J. (deed of arr.) 842 Rumex Eeklonianus 267 Rusby, Dr. H. H. (personal) 60i, (address by) 823 Rushton, M. (personal) 736 Rusitas 628 Rusma 577 Russell, Dr. W. J. (will) 43 Russia: Chemical mfrs. 103 — works in 70 Pharmacy monopoly 136 Proprietary medicines in 103 Rust prevention (patent case) 725 Ruthven's "Ladies' Cabinet'' 175 Ryder, J. G. (death) 73, 249 Ryley (Edw.), Ltd. (reg.) 501

SACCHARIN CORP., LTD. (removing) Saccharin harbouring 533, 653, 724 - importing (Hungary) 909 - mfr. in England 870 - patents (law cases) 532, 694 - smuggling cases 99, 529, 724, 756, 906 - in Spain 567 Saffron, cultivation in England - method of collecting 779 - method of collecting 119
- plaster 539
Saffron Walden, note on 817
Sago, bulletin on 794
St. Bartholomew's Hospital, 677
St. Louis stimulating lotion 926
St. Raphael Tonio Wine Agency 215 St. Vincent Association 587 Sake, preservatives in 843 Salad oil, sale by chemists 201 SALE OF FOOD AND DRUGS ACT: ALE OF FOOD AND DRUGS ACT:
Analysts' certificates (form of)
221, 514
Book on, Supp. May 14
British Pharmacopecia as standard (see British Pharmaco-

pceia)
Difficulties of administering 359
Informal sampling (L.G.B. on)
277, 348
Froprietary articles, sampling 912
Prosecutions (see Legal reports, Sale of Food and Drugs Acts)
Samples collected 17
Statistics of samples 17
See also Analysts' reports and Local Government Board, Salford Pharmacists' Association 786

Salioylic acid as preservative 493, (Japan) 531

— test, precaution 506

— and zino oxide cream (disp.

note) 202 - ionisation for neuralgia 123 — ionisation for neuralgia 123
— ointment preparation 447
— sugar as wound-dressing 354
Salle, H., & Cie (Paris floods) 285, (guarana) 573, (exhibit) 748
Salmon, Wm., lecture on 295
Salmon's "Herbal" 176
— "Iatrica" 175
Salol in mixture (disp. note) 343
Salossit 167
Salt (see Sodium chloride)

Salt (sce Sodium chloride)
Salt, J. W. (death) 882
Salt of lemon poisoning 162, 286, 678, 699, 749, 793, 814, 840, 896, 936, 944
Salutaria W. Salutaris Water Co. (exhibit) 749 Sampson, J. W. (presentation) 698

Samson dry-cell 609 Sand, properties of 288 Sandal wood (New Caledonian)

700
-- oil (data) 293, (standards)
328, 341, 373, 400, (Madagascar)
404, (standards) 421, 477
H. G., & Son, Ltd. Sanders, H. G., & Son, Ltd. (dehentures) 141, 443, (dehenture satisfied) 953

Sangers (shop-fitting) 11, (show-week) 697, (exhibit) 748
Sanitary inspection (book) 641
— officer's hygiene (book) 24

Sanitary Wood Wool Co., Ltd. (exhibit) 672
Sanitas Co., Ltd. (spittoon flask) 285, (exhibits) 672, 748, (report) 763, (annual meeting) 812
Sanitol Chemical Laboratory Co. (law case) 39, 810
Santoli (see Sandal)
Santonin, administration 354
Santonin, administration 354
Santonin, sets for 148
Sanyent, F. P. (port. and biography) 612, (council candidate) 654, 743
Sarjeant, A. & Co., Ltd. (reg.)

Sarjeant, A., & Co., Ltd. (reg.)

Sartolin, Ltd., 156 Sassafras oil for ringworm 252 Satrapol 575 Satuma sulphur 931

Saunder's "Schüssler System of Treatment" 24 Savage, G. S., on Eastern travels 183

Savile Town Chemical Co., Ltd. (winding-up) 283, 352 Savin as a poison 343 Savory & Moore, Ltd. (exhibit)

Sawden, A. (death) 284, (will) 792 Sayers, Silcox, Cuzner & Co. (trusses) 628

(trusses) 626 Scales for heavy goods 683 — stamping (M'chtr) 712, (inquiry) 722, (letter) 967 Scales's "Practical Microscopy"

24 Scammell, L. (death) 662 Scarborough Assoen. of Phar-macists 227 Schacht, G. F. (port.) 621

Schieffelin, Dr. W. J. (personal)

--- signt-testing 786
--- spectacle supply 66, 837
--- tecth 185
Schmidt, M. (death) 244
Schranm, K. R., & Co., Ltd. (reg.) 72

Schramm, K. R., & Co., Ltd. (reg.) 72
Schneht, L. (death) 502
Schüssler system of treatment (book) 24
Schütze, F., & Co. (exhibit) 765, (theft from) 871
Schweissinger's ointment 270
Science Development Co., Ltd. (struck off) 812
"Science Year-book" (review) 83

83 Scientific Veterinary Supply Asso-ciation, Ltd. (reg.) 412 Scobie, Mrs. M. S. (will) 284 Scott's Emulsion in Switzerland

954 Scottish exhibition 36 Scottish Mineral Oil Association, Ltd. (exhibit) 765 Scottish salon 278 Sca, colour of 364

- salt, artificial 926

- sickness, preventive 801
- water distillation (book) 24
- injections (book) 581
Sealing-wax, objections to use of

Searby, W. M., memorial 383
Secret Commissions and Bribery
Prevention League 527

Secret remedies, see Proprietary medicines "Securitas" Non-inflammable Products Co., Ltd. (Securitine) 697, (exhibits) 698, 748, (fire)

806 Securitine 672, 697, 748 Sédillet's pills 165 Sedna wine 628 Seed, T. H. (portrait) 444, (personal) 469 Seed trade 15. 156 Seedsmen and sale of poison, see Poison-licences

Seeley's mercuric-oxide ointment

Seidlitz powders as pick-me-up 68

—— sale of modified 722 Selective breeding, Cavanagh on 460, 507, 559, 592

Sensitized Faper Mfg. Syndicate, Ltd. (removed from register) 763

Serum supply 577
— paper on 260
Servia pharmacy law 160
— Pharmacoposia, new ed. 136
Sesame oil emulsion 482
— uses of in pharmacy 581
— where official 581
Sewers, chemicals in 66
Seymour, Ltd. (reg.) 501
Shampoo, dangerous, prohibition 383 Serum supply 577

383

- powder 424, 938, (perfume) 524
Shanghai trade 691
Shanks, J., & Co., Ltd. (Dublin)
(receiver) 248, 467
Sharp, W. (will) 43
Shaving-blocks 837, 907

-lotion 684 - fotion 684
- soap tubes 156
Shaw, Hy., & Co. (May Queen soap) 673
Shaw-Mackenzic, C. F. D. (before

Shaw-Mackenzie, C. F. B. (before G.M.C.) 855 Shcep-dip, co-operative supply 866 — paste form 306 — poisoning 430, 814 — Queensland formula 468

—— Queensiand Tollinda 400 Sheep-dipping objected to 807 —— Order (Irelaud) 655 Sheffield Pharmaceutical and Chemical Society 119, 294, 483,

Sheffield University 99
Sheldrake, A. M. (death) 629
Shellcross, G. (dcath) 214, (will) Shenstone, J. C., on stock-keeping

Shepherd, G. P. (death) 916 Shipping ring, S. African 279 Shirley (Arthur) & Co., Ltd. (reg.)

Shirley Bros., Lt (soothers) 672 Shirotsubaki oil 931

Shizuoka-ken, etc., Association

Shop Act (Victoria) 498 Shop hours (see also Assistants' hours) Shop hours (Edinburgh) 4, (Irish

Assistants on 712 (see also Assistants' hours)
Shop Hours Act inquiries 305 --- Orange River Colony Supp.

Mch. 5

Shop Hours Bill (O.R.C.) 6, (discussion) 205, (Dilke's) 365, 505,

Shop Hours Bill (O.R.C.) 6, (discussion) 205, (Dilke's) 365, 505, 543, (discussion) 565, 882, 911
Shop-window displays (see Window-displays)
Shopping by post 29
Shorrock, R. (personal) 784
Shrager Bros. (bankr.) 879
Side-line, restaurant as 799
Sierra Leone pharmacy ordinance 64

64 - — trade of 28 Sight-testing, artificial light in 43

— described 188

— pinhole method 23

— routine 474

Silicon, organio derivatives 151,

preparation, caution 782 Silver fluoride 167
— nitrate poisoning 678 — stains, removing 293 "Silverdrawn" tooth-brushes 544

"Silverdrawn" tooth-brushes 544
Silvering-powder 455
Simaruba bark, exports 607
Simmonds, Hunt & Montgomery,
Ltd. (reg.) 40
Simpkins, Walthamstow, Ltd. (debentures) 536
"Simple Life" Exhibition 526
Simple Remedies, Ltd. (reg.) 318
Simpson, Sir A. R. (parl. candidate) 56
Simr's lozenges 42
Sium eightafdium, oil 357

Sium eicutæfolium oil 357 Skin-colour powder 926 Skin-creams, formulæ 482 — with crembas 639

— with crembas 639
Skin-rugs, moth treatment 32
Skin-tablet 96
Sky, why blue? 364
Slack, B. (new offices) 156, (cooperative scheme) 848
Slack & Cox, Ltd. (mortgage satisfied) 72
Slater, C. A., Sons & Co. (bankr.)

Sleep, need for, Supp. June 11 Sleeping sickness (trausmission) 438, (treatment) 772 Sloga paper 575 Small-pox epidemio (Singapore)

Smart Dalgleish & Co., Ltd. Smart Dalgleish & Co., Ltd. 37 Smith, A. W. (presentation) 917 Smith, H. E. L. (death) 10 Smith, Jas. (portrait) 515 Smith, J. C. (presentation) 908 Smith (J. E.) Sons & Co. (vanilla-chopper) 895 Smith, J. F. (death) 354, (will) 697

Smith, J. H., & Co. (Doomo fly-Smith, J. H., & Co. (Doome fly-trap) 673
Smith (Stephen) & Co., Ltd. (Carvino) 672, (mortgage) 915, (report) 953
Smith, T. & H., Ltd. (report) 283, (meeting) 318, (opium samples) 447, (dance) 497
Smith (Thomson) & Co., Ltd. (reg.) 213
Smith, Walter (bankr.) 842
Smith, W. G. (portrait) 52

Smith, Walter (bankr.) 842 Smith, W. G. (portrait) 52 Smith, W. H., & Son (newspaper advs.) 573 Smith, W. R. (death) 73, (portrait)-108, (will) 384 Smyrna, drug-imports 192 Snake-bite remedies 780, 937 Snell, J. S. (whist seoring-card)-

Snelling, J. G. (will) 73 "Snercold" safety device 853 Snow, effect of salt on 207 Snowden, P. (parl. candidate) 56 Snuff perfumes 684

Snuff perfumes 684
Soamin for paralysis 252
Soap, an antiseptic Supp. Jan. &
— enemas, after-effects 486
— history of 615
— poetical allusions 567, 615
— statistics (U.K.) 775
"Soap-trust" libel case 410
Société des Forces Motrices et
Usines de l'Arve (chemicals) 628
Société Générale des Eaux
Minérales de Vittel (exhibit) 748.

Société Générale des Eaux Minérales de Vittel (exhibit) 748 Society of Apothecaries, assis-tants' exam. experiences Supp. Feb. 5

386 ___ and chemists 44, 94

--- Grier on 459
--- and Pharm. Society 45 See also Apothecaries' assistants
Society of British Dentists 744
Society of CHEMICAL INDUSTRY:
Address to King 941
Annual meeting (arrangements)

By-law 465 Liverpool section 378, 446 London section 45, 121, 257, 405, 549, 710, 901

Manchester section 549

Nottingham section 225, 366, 517,

825 Society of Chemist-Opticians 86, 367, 677, (annual report) 711, (annual meeting) 744 Society of Drug-store Proprietors 267

267 Society of Public Analysts 204, 786-Soda crystals supply (law-case)

Soda-water plant 422 Sodium bisulphate, death from 566—carbonate, action of chlorine on 458

- dimethylaminophenyl - arsonate

-hydrate poisoning 792 - hydrate poisoning 792
- mercuri - amidoxy - isobutyrosalicylate 705
- salicyl. and tr. quin. ammmixture (disp.) 517
- santoninate 238
- silicate in bath-salts 343
- sulphate for boils 521
- and pot. brom. mixture (reaction) 518
- washing-sada for (law-6202)

washing-soda for (law-case)

Soft soap, to make 455 Soil fumigant 482 Solazzi liquoriee-juice 143 Solder for earthenware 594 Selport Bros. ("morning dip" bath-gloves) 353

Dr. (Vienna). Sommerweiss, work 294 work 294
Somnalgesine, note on 824
Soured milk causes illness 215
— cure (note) 527
— dairy display 278, 496
— preparations 166
— preparing 482

Soured Milk Syndicate, Ltd. (reg.)

Treatment Supp. Jan. 8, (book on) 161, ("Times" on) 705, 742
SOUTH AFFICA:
Examination requirements 627
Medicinal plants 115, 780
Pharmaceutical education 600
Pharmacy laws, federating 568, 809, 840, 874, 888, (conference) 909, 944
Poisonous plants (book) Supp. ence) 909, 944 Poisonous plants (book) Supp.

Mch. 5
Shipping ring 279
Trade statistics 103
See also Cape Colony, Natal,
Orange River Colony, Rhodesia, and Transvaal
SOUTH AUSTRALIA:
(Classical Prospects 833 853

Chemists' prospects 833, 853 Examination requirements Examination requirements 625
Medical Bill 245
outh of England College of
Pharmacy 630, Supp. May 28,

Kensington South

South Kensington Science Museum, inquiry 526
Southall Bros. & Barclay, L'd. (laboratory report) 109, (report) 552, (factory visited) 385, (annual meeting) 442, 516, (exhibit) 672, 698, 748
Soyn-bean cattle food law case) 247, 501

247, 501

247, 501 — cultivation (paper) 527 — evanogenetic properties 324 — duty (U.S.) 490, (Germany) 822 -- as fodder 492

-- oil (Cowie) 480 Sparks, White & Co., Ltd. (history) 608

Spearmint oil, standards 399, 477, 431

Spears, G. (presentation) 278
Spectacle-makers' Co. (inset) 143,
(interview) 154, (exam. experience) 189, (exam. questions) 189,
(dinner) 278, (minute-books) 365, 426, (Trade-Council) 448,
(exam. entries) 611, 724, (passlist) 806, (exams.) 888
Spectacle-supply to hospitals 87
— to school-children 66, 837
"Spectacles" cod-liver-oil 931
— ordering 23
Spence (Peter) & Sons, Ltd.
(London office) 41 Spears, G. (presentation) 278

Spence (Peter) & Sons, Lea-(London office) 41 Spencer (Isaae) & Co. (Hull), Ltd. (reg.) 555 Sperm-oil production 192 Spermaceti, antiquity of 479, 496,

Spiced vinegar essence 684, 904 "Spider" brand alkaloids 748

"Spider" brand alkaloids 748
Spido cameras 575
Spies Bros. & Co. (RoureBrtrand's agents) 156
Spiks-lavender oil, test, 151
Spindle varnish 130
Sp. æther. nit. and pot. chlor.
mixture (dispensing) 480
———deterioration 110
——ammoraron and tr. farri

—— deterioration 110
—ammon. arom. and tr, ferri
(dispensing) 518
Spirit duty, decrease, 510, 683
Spirit, duty-free (O.R.C.) 774, 943
Spirit-duty increase (Balfour on)
75, (rebate suggested) 94, (discontinuance) 219, 386, (H.C. anest.) 437, 441, 465, (Guy's Hospital) 509, 593, (Good Templars on) 528, (H. of C.) 614, 687
(effect) 806 (see also Finance Bill)

Spirit-duty rebate 94, 687, (B.D.H. circular) 697

— reduction contemplated 510,

Snirit-licences, increased (Ed.) 703. (inquiry) 903. (new charges) 956 (see also Wine-licences, new charges)

— manufacture from sulphite 558

Spirit permits, regulation 440 — purifying 423 — solid 861

syndicate (Germany) 678 — tax increase (Jersey) 66 — yield (Germany) 93

- yield (verniany) 95
- from wood-pulp 462
Sre also Alcohol, Industrial
Spirit, and Methylated spirit
Spirits, sale of (N.Z.) 69
Spirituous medicines (bonding
facilities wanted) 509, (sale of)

585, 894

Spirosal 895 Spirosal 895
Spivey, T. A., pharmacy 186
Spon's "Workshop Receipts" 641
Sponge-purchase, caution 867
Spratt's Patent, Ltd. (report) 352
Spurling, W. E. (death) 961
Squire's "Appendix" 436
Squire's "Pharmacopeias of
London Hospitals" (review)

Squire's "Pocket Companion

appendix 413

appendix 413
Stage, pharmacy on 462
Stains, removing 293
Staley, A. E., & Co. (exhibit) 575
Stamp Acts (see Medicine-stamp Acts, also Legal reports, Medicine-stamp Acts)
Stamp liability (see Medicine-stamp Acts)

stamp Acts)
Standard Oil Co. of England, Ltd.

Standard Oil Co. of England, Ltd. (reg.) 318
Standard Oxygen Light and Power Co., Ltd. (reg.) 318
Standard Tablet and Pill Co. (sour milk therapy) 109, (inset) 143, (easenra tablets) 215, (oatmeal soup) 553, (pearl toothpaste) 414, (bath-nowder) 436, (lavender dry shampoo) 469, (shampoo powders) 503, (formal in tablets) 544, (borated tale (shamb) powders 365, that lin tablets) 544, (borated tale powder) 678, (dental cream) 672, (memorial adv.) 784 Standardisation, physiological 193

Standards for drugs (Lloyd on)

British Pharmacopæia as legal

British Pharmacopeaa as legal standard)
Stanger's Treatment, Ltd. (removed from register) 915
Star camera stand 745
Starch and calamine lotion (dispension note) 517
— gloss 801
— mfr. 344
Starchutt miner, note on 609

mir. 544
Stassfurt mines, note on 609
Stationery as side-line 608
Stavesacre as a poison 904
Stearanilide ointment 855
Stoedman's powders at inquest

906 906 Steels, Ltd. (reg.) 953 Sterilisation, Wooleack on 295 Stern-Sonneborn Oil Co., Ltd. (exhibit) 748 Stevens, A., & Son (glycerin) 628 Stevens, W. (death) 284, (appreciation) 346 Stevenson & Howell, Ltd. (inset)

143, (dinner) Supp. Mch. (report) 467

(report) 467
Stevenson (Hugh) & Sons, Ltd.
(telephone) 250
Stowart, A. M. (personal) 186
Stewart, S. A. (death) 908
Stewart's "Pocket Therapeutics
and Dose-book" 581

Stills, free of duty, conditions of use 777

use 777
Stock-keeping, hints on 172
Stock-keeping, hints on 172
Stock-taking 173
Stockport Pharmacists' Association 119, 297, 743
Stokes, F. J., Machine Co. (exhibit) 698
Stokes Machine Co. (exhibit) 748
Stokes Machine Co. (exhibit) 748

Stomach acidity, hydrogen per-oxide in 20

ovide in 20 — book on 161 — ulcers treatment 860 Stoman 167 Store-prices (C.S.S.A.) 346, (A. and N.) 378

Deleterious Drugs Bill 6 Evamination requirements 627 Poison-licences 464

Salary in 910 Strauss, B. S. (parl. candidate) 56 Straw-hat cleaner 493

Straw-hat dyes 684

Strawberry essence 375 Strawberry essence 375 Strawsons, Ltd. (reg.) 762 Strickland, A. W. (death) 214, (will) 384

Stringer, E. R. (ereditors' meeting) 313 Strophanthus tincture, standard-

ising 193
Strychnine arsenate, formula 824
— poisoning 35, 57, 66, 134, Supp.
Feb. 5, Supp. Feb. 12, 286, Supp.
Feb. 26, Supp. Meb. 5, 500, 552,
724, 793, 814, 840, 936
— charges 654, 907
— damagos for 837
— reaction 506
Students' corner 2, 98, 129, 132,
Sup. Feb. 19, 308, 458, 596, 652,
756, 804, 866, 940
Studer, B. (death) 629
Sturge, John & E., Ltd. (reg.)
351, 352
Substitol 167 ising 193

Substitol 167 Substitutors, advertisers as 840 "Substitution," practice of (Rus-

sell) 701 - "Weekly Dispatch" on 51 - what is? 79

Suction gas-engines 938 Sugar lactones, constitution 782

— making (book) 161, 274

— production, grant suggested

Suicide prevented by chemist 497,

564, 688
Sulphates, volumetric assav 76
Sulphonal poisoning 786, 438
Sulphur, agricultural 928
— arsenic in 110
— fumigation 493
— lotion (Vidal) 926
— precipitation (analytical note) 564 688

solubility 928 Sulphurie acid. accident 528

— to dilute 518

- to dilute 518
- mfr. (book) 24
- patent-case 410, 569
- poisonings 23, 557, 591
- throwing charge 598, 655, 686
Sulphurous acid preservation 323
Sumner, H. A. (deed of arr.) 9
Sun, atmosphere of 906
Sun-blind nuisance, abating 523
Sunday closing (Edinburgh) 907, 930
- trading (Vancouver) 809

— trading (Vancouver) 809 Sunrise Proprietary Co., Ltd. (debentures) 536, 763 Superfluous hairs (see Depila-

Suprarenal gland principle (synthesis) 259, (see also Adrenalin)
Surgery (books on) Supp. May 14,

844

- risks of 15

Surgical dressings, sterilising 157

- instruments, branding (U.S.) 7

- nursing (book) 24

- thread 910

Sutherland, J. W. (personal) 229

Suttley & Silverlock, Ltd. (exhibit) 748

Sutten G. F. (death) 629, (will)

Sutton, G. F. (death) 629, (will)

962 Swales, T. (hottles and corks) 414 Swansea Oxalic-acid Works, Ltd. (winding-up) 412, 696, 812 Sweating, feetid, treatment 376 Sweden, customs tariff 865 Sweet birch oil, standards 400,

Switzerland, chemical trade 793 -nharm, education conference

Sydenham's laudanum 13 Sydney University students 498 Sykes' hydrometer 479 Symes, C. (port. and biography) 612

612
Symptoms, index of 782
Symploids, Ltd. (mortgage) 107, (debenture satisfied) 283, (debentures) 355, 443, 571
Synonyms, dictionary 47
Synthetic drugs in pharm, 923
— perfumery, books on 494
— preparations, value of 483
Synthetic Rubber Co., Ltd. (winding-up) 72, 490
Syphilis (hook) 274
— serum diagnosis (hook) 514

- serum diagrosis (book) 514
- treatment 215
Syphon, hygienic, described 544
Syphons, offers to buy 825

Syphons, property in 660 Syracuse suspensory b agency 285 Syrgol 167 bandages.

Syrupus ferri iedid, (darkening) Supp. June 18 — picis liq. in mixture (disp.) 268 — sodii santonici 238

Tablet machine, Maw's 698
Tablets, disintegrating (patent) 136

- regulations (Germany) 36 Tabor, Sir Robert (note on) 768 Tachiol 167 Tamara 749

Tannin in plants 147
Tanning, book on 782
— principles of 710
Tan-Shu advertisement 848
Tansan Mineral-water Co., Ltd.
(reg.) 72, 747, (charge on

(reg.) 72, 747, (charge on capital) 843, 931

Tariff decisions (see name of country)

— reform, commission suggested

Tartaric acid test 583

Tartrates, testing for 132 Tasker Kevs & Co., Ltd. (winding-up) 412, 501

Tasmania examination requirements 625 Tautomeric change, mechanism of

Taxation of commodities, effect of

Taxation of commodities, effect of (letter) 422
Taxidermists' soap 270
Taylor, Dr. H. V. (before G.M.C.) 816

816
Taylor (Edw.) Ltd. (reg.) 412
Taylor, P. W., & Co., Ltd. (reg.) 9
Taylor, T. W. G. (will) 537
Taylor's Drug Co., Ltd. (position)
50, (fire) 576, 564

50, (hre) 5.0, 504
Techno-chemical Laboratories,
Ltd. (rg.) 213
Tee-gee cachous 628
Tees-side Chemists' Assoen. 859
"Teeth," booklet on 215
Teeth extraction damages 71, 569,

728, 811 ...—dangers Supp. Jan 8 --formation, lime function 594 --instalment system of supp

supply

257
-- preservation of 185
See also Tooth and Dental.
Teething-powders 562
Telephone in drug-stores (U.S.)
137
-- letters 34

-letters 34
Telescopes, sale of 786
Tennant, H. J. (port.) 55, (parl. candidate) 56
Tennant, Sir E. P. (port.) 55, (parl. candidate) 56
Terpin hydrate elixir 85
-resorcinate 167
Territorial Army (nharmacists) 45. (drug supply) 505, (pharmacists' aid) 310. (defence scheme) 346, 366 (see also Army)
Tetanus-serum supply 544
Tetra-nitromethane 960
Tetra-nitromethane 960
Teuerrium africanum 781 Tenerium africanum 781

Texas Medicine Co., Ltd. (receiver) 953

953 Thaines Valley I harmacists' Assocn. Supp. Jan. 29, 445, 468, 637, 712, 965 Thefts (see weekly contents, English news, etc.)

Thefts from counter, preventing 907, 968 Theobald's sulphur wash 978

Theobromine sodium salicylate, assay Supp. May 28
Therapeutical Society 221, 364, 393 (see also Royal Society of Medicine)

Medicine)
Theriaca, antiquity of 5
Thermite process 238
Thermometers, accuracy of 901, 967
— advertising 171

- clinical, standardising 903, 936, 967 — shaking-down 895 Thermos patent (law-case) 66, 694

Thiosinamin 166 Thompson, S. L. (death) 66? Thompson, T. T. (death) 384

Thompson & Capper (exhibits) 698, 748 ovs, 748
Thompson & Co.'s Idolice Specialities, Ltd. (reg.) 352
Thomsen, Julius (biography)
Supp. Feb. 26 Supp. Feb. 26
Thorium nitrate, priec. 832
Thorium syndicate 370
Thorne's Drug-stores, Ltd. (ereditors' meeting) 915
Thorpe, Sir T. E. (presentation) Thread-worms, treatment 269, Thread-worms, treatment 269, (book) 926
Thunder, effect on milk 938
Thwaites, G. H. (bankr.) 535
Thyme oil, standards 460, 478
— Turkish 127
Thymol in mixture (dispensing) 518
Tilden, H. B. (personal) 464
Tilden, Sir W. A. (personal) 687
Timpson & Co., Ltd. (Syraeuse bdges.) 285
Tin-boxes, ink for 130
—mines waste 46
Tinet, benzoin co. standard 30, (Liverseege on) 528
—tinchon, and sodii saligal (Liverseege on) 528—cinehon, and sodii salicyl, mixture (dispensing) 517-ferri and hexamethylene-tetra-min (dispensing) 518 —— and sp. ammon.

(dispensing) 518

— iridis 96

— laxativa 611 - opii and liq. ammon. reaction - quin. ammon. coloration, pre-- quin, ammon. coloration, preventing 518
-- and liq. amm. acct. mixture (dispensing) 518
-- and sodii salicyl. mixture (disp. note) 517
Tinctures, aqueous, basis 524
-- permanence of 823
-- resinous, preparing 827
Titan Soap, Ltd. (debenture satisfied) 763
Titles deporting 329 field) 765 Titles, deceptive 919 Titles, deceptive 919 Titles, deceptive 919 Tobaeco-pipes, pictures ou 342 Toeher, J. F. (speech) 31, (lecture) 792 ture) 792
Toilet preparations (book) 274
Tokio School of Pharmacy 760
Tolu balsam exports (Cartagena) 244
Tomatoes, acid of 684
Tomalinson & Hayward, Ltd.
(Eureka weed-killer) 628
Tonair 870
Toogood, W., Ltd. (list) 697,
(Dulley's clinical case) 895
Toothache, notes on 185
Tooth-brushes, municipal supply
460 460

— in schools 145, 237

—extraction damages (law case)
71, 569, 728, 811

— injections 52

— lotion 524
— fillings, antiseptic action 761
— powders, requirements 375

See also Dental and Teeth
Topaz, colonr of 46
Torbet, Ltd. (reg.) 282
Torquay Chemists' Association 743
Townsend & Sons (Dr. Durden's pocket-book) 813, (exhibit) 672
Trade-marks Act prosecutions (see Legal reports, Trademarks Acts)
——in Cuba 280

"Trade-mark Notes" 320
—registered (see weekly contents)
Trade-names, derivation 253 -- in schools 145, 237 Trade-names, derivation 253 Trade notes (see names of firm and article) Trade progress (see name of countruTraders' law (book) 24 Traders law (600k) 24 Trading by municipal servants 564 Tragacanth production (Turkey) Traill medal founded 529
Transfer agents' fees 237
Transmutation of metals, possibility of 46 bility of 46
TRANSVAL:
Examination requirements 627
Pharmacy Board Supp. Mch. 5
Proprietary medicines poison
schedule 657

Trapp, L., & Co. (exhibit) 575 Trask, T. (death) 961 Travellers (see Commercial tra-Tracellers)
Trees damaged by chemical fumes 528
Treforest Cash Chemist Co., Ltd. (reg.) 914 Trezo tablets (law-case) 431 Tri-shelf (Sangers') 697
Tri-shelf (Sangers') 697
Triazo-group research 742
Tricamphoryl-arsinic acid 84
Trichlorethylene as solvent 786
Tricresol, action on skin 152
Trifolium incarnatum research Trinidad tariff (H.C. quest.) 911 Trimud tarin (H.C. quest.) 911 Trional poisoning 123, 313 Tropical hygiene (pamphlet) 689 — medicine (book) Supp. May 14 Trommer Co., Ltd. (clixir) 285 Trophonin 167 Troplonin 167
Tropical hygiene lectures 276, 310
Trucâtt, H. P., Ltd. (removal) 284,
(mortgage) 443, (report) 915
Trucage 672
Truth, what is? 289
Trypal san 167
Tschirch on Materia teaching Supp. Jan. 29
Tsugaki's cod-liver oil 951
Tuberculin preps., ne w 895
Tuberculosis, arylarsonate in 125
— book on 274
— combating (Purhan) 5 - open-air treatment (books) 24, - sanatorium treatment, effect -- serim 945
Tunbridge Wells Association of
Pharmacists 297, 585, 711
Turkish delight 867
Turmeric paper, sometimes contaminated 508
Turner I. 8 (b. 114) (mortgage) Turner, J., & Co., Ltd. (mortgage) Turpentine and beeswax fire 460 - estimation 538
- examination of 270
- exports (Savannah) 662
- oxidation product 901
- standards 460, 421, 477
- substitutes, sale of 903
- Russian 415
Twinberrow, J. (death) 763
Type-cleaning liquid 938
Typewriter ink, oily basis 868
- for prescription-writing 760
Typhoid communicated to monkeys 499
- serum 279
Tyrer, Canon F. B. (death) 43, (appreciation) 66
Tyrer, T. & Co., Ltd. (Easter holidays) 414
UCM, LTD. (exhibit) 700, 735, (Edinburgh) 907
Ulcers on leg, treatment 415
Ultra-filtration 121
Ultra-wicelet rays for sterilisation 576
Umney, J. C. (personal) 469, (ill-576
Umney, J. C. (personal) 469, (illness) 596, 698
Ung. ac. borici (Ph. H.) 581
— earbolie, B.P., complaint re 95
- adipis lanæ (I h. H.) 581
- eantharid. (Ph. H.) 581
- ennolliens (Ph. H.) 581
- gelatinatum 855
- hydrarg, oleat. percentage 518
- laniowaselini 855
- laniowaselini 855 -rosatum (Ph. C. S.) 581 -stearanilidi 855 -zinci (Aust. Ph.) 581 United Alkali Co., Ltd. (dividend) 318. (exhibit) 765 United Chemists' Association, Ltd. (meeting) 141 United Kingdom Custom Houses Company-pharmacy in, 7, 383, 601, 810 743 601, 810 Drug-stores in, 7 Food and Drugs Act charges (metabolised c.l.o.) 7, 39, 137, (regulations) 280, 552, (meta-bolised c.l. oil) 761, (preserva-tives) 761, (decisions) 810

- combating (Durban) 5

- estimation 538 - examination of 270

161, 514

95

- leniens 581

UNITED STATES:

rosatum (Ph. C. S.) 581

(book) 514 - sernm 943

- modern treatment 772 - notification (Sheffield) 66

United States (cont.): Liquor sale by druggists 383 Narcotio drugs, regulating sale, 601 601
Pharmacopæia Convention 137, (delegates) 761, (report) 822
—" Digest of Criticisms" 619
— discussion 601
— papers on 823
— revision 7, 280, 383, 552, 849
Sale of medicines (law-case) 465
Tariff Convention (France) 499, (Canada) 551
— decisions (surgical instruments) 7, (orange oil) 234
— proclamation 103
Universal Dental Mfg. Co., Ltd. (reg.) 812
Universities, Government grant 454 (see also name of place)
University College laboratories 435, 724
Unna's skin-powder 926
— stick pomade 926
Upton, A. M., on chemists 44, 94
Urine, albumin test 867
— pus and phosphates in 650 (Canada) 531 - pus and phosphates in 650 - pus and phosphates in 650 Uron 824 Uropurgel 506 Urotropin as desulphuriser 826 Urwick, W. W. (death) 662, 706 Ursher's Drug-stores, Ltd. (reg.) 501 VACCINE, FFFECT OF COLD ON, 226 VACCINE, FFFECT OF COLD ON, 2—use of 749
Valeryl-amido-antipyrin 167
Vallet's pills 13
Valuation of metropolis 362
— quinquennial (book) 514
Varnam and areas since from Vamaru red-cross wine fraud 380, Van Gorkom, Dr. K. W. (death and port.) 434 and port.) 430 Vanadozon 506 Vanadozou 506
Vanilla-chopper 895
— crops, estimate 682
— exports (Madagascar) Supp.
Jan. 22, (Martinique) 192,
(Vera Cruz) 958
Varnish mfr. (books) 96
— stains, formulæ 562
Vaseline, melting-point 353
— as trade-mark 31, (in Germany) 567
Van Suet, why used 366 many) 567
Veal suct, why used 306
Veloda bouquet 748
Velvix Toilet Co. (exhibit) 748
Veda, Ltd. (reg.) 40
Venereal diseases (book) 274
Venetian red 938 Vene Drug Co., Ltd. (report) 412 Veronal 166 — poisoning 162, 482, 793, 944 — value of 483 "Versatile" plates 413, (terms of supply) 721, 754 Veterinary liniment 423 — medicines (Dun's book) 888 medicines (Dun's book) 888
 qualification (inquiry) 268
 Veterinary Surgeons Act, amendment suggested 836
 prosecutions (see Legal reports, V.S. Act)
 Vibrona manufacture 153
 Vichy water (output) 156, price-protection) 294
 VICTORIA VICTORIA: Examination requirements 625
Factory and Shop Act 498
Pharmacy Beard 759, 874
Vidal's sulphur lotion 926
Viking's Syndicate, Ltd., (removed from register) 915 moved from register) 915 Vin. chinæferratum ec. 855 See also specific names Vinolia Co., Idd. (reduction of eapital) 570, 635 Capital) 570, 636 Violin varnish 86 Viper fly-catcher 573, 628 Virogen 746 Virogen Foods, Ltd. (reg.) 762 Visco, Ltd. (reg. 702 Virol, Ltd. (window-dressing competition) 503, 544, 580, 647, 683, (window-displays) 771, 754, (report) 843, (meeting) 880 Viscose Development Co., Ltd. (new premises) 320, 351, exhibit) Vision, theory of 188 Visual-purple, effect of light on (removed from register) 915 Vitaloids advertisements (lawease) 140, 350

Vitano wine 749
Vittel water 748
Vivisection defended 584, 597
Vorley, H., & Co., Ltd. (reg.) 503
Voss (Walter) & Co., Ltd. (plast-pest remedies) 415, (cyanido-packages) 436, (exhibit) 748
Vril camera 575 Vulcanising dental work 640 Vulcanite, how made 594 WAGES, ASSISTANTS' (see Assistants' salaries)
Wakelen, W. E. (bankr.) 953
Walden inversion 670
Walder, F. (death) 73
Waldron, J. J. (pert. and biography) 612, 713
Walken, E. (bankr.) 40
Walker, G. (death) 214
Walker, J. (death) 662
Walker, J. D. (death) 662
Walker, J. D. (death) 43
Wallach, J. (death) 652
Walker, J. D. (death) 43
Wallach, J. (death and port.) 142
Walshaw, R. C. (portrait and cooption) 546, 585, 766
Walter's Caoutchoue Syndicate, Ltd. (reg.) 762
Wandler's Caoutchoue Syndicate, Ltd. (reg.) 762
Wandless, W. H. (port.) 55, (parl. candidate) 56
War, pharmacists' duty in 5
Warbles in cattle, treatment 868
Ward, J. (will) 214
WARNINGS:
Almonds, purelnasing 646
' Brussels Evibilition'' 866 WAGES, ASSISTANTS' (see Assistants' Almonds, purchasing 646 "Brussels Exhibition" 8 Canvassing proprietaries 936 Long-firm 936 "Max Kaiser" 866 Meat-lozenge swindler 421 Meat-lozenge swindler 421
Morphine customer 421
Post order 648
"Smith" (warehouseman) 250
Sponge-purchase 867
"J. Williams" 522
Washing-powder 684
Water analyses, Shelton on 471
—charges to chemists 825
—colour of 364
Water Steriliser Co., Ltd. (windingsm) 107 ing-up) 107 Waterbury's metabolised cod-liver oil (misbranding charge) 7, 39, Waterproofing cart-covers 344
— cloth 130, 456 tent 868
Waterworth (Alfred), Ltd. (winding-np) 763
Waters of B.P., methods of making 294
Watson (Geo.), Junior, Ltd. (reg.) 435
Watson, W., & Sons, Ltd. (factory burnt) 98, (exhibit) 575
Watsons (Ilunstanton), Ltd. (reg.) 762
Wax composition, for sculptore 438 (see also specific nomes, e.g. Beeswax) tent 868 438 (see also specific nomes, c.g. Beeswax)
Weare, J. A. (port. and death) 10
"Weathering," effect of 46
Wedge, G. W. (death) 962
Weed-killer, caustic seda as 721
——non-scheduled 868, (nonpoisonous) 938 — poisoning 482 — sale of 903 Weeds (book) 782

Weekly rest, necessary 496
Weighing and measuring (book) 481
With paper (H.C. quest.) 911
With sand Memstres Act:
Prosecutions (see Legal reports,
Weights and Measures Act)
Regulations 237
Scales regulations (B'ham) 134,
(letter: 967
Weights and Measures, book ob

— inspectors' reports 805
Weiner, H. (bankr.) 570
Weir-Mitchell treatment 650
Wellcome Chemical Research
Laboratories' publications 514
Wellcome Institute 229, Supp.
Mch. 5
Wellcome Physiological Research
Laboratories' publications
Supp. May 14

Wellcome Research Laboratories, Khartoum (report) 779

Wellington & Ward (exhibit) 575 Wells, H. (anæsthetist), memorial 349, 499

West Africa, trade openings 28 Vest African Mineral-water Mfrs.' Association (struck off) West 812

West Ham Association of Pharmacists 119, 298, 444, 469, 636, 837, 930

West Indian beverages 828 Western Australia examination re-

quirements 625 Western Drug Stores, Ltd. (struck

Western Drug off) 953 Western Pharmacists' Association 227, 295, 446, 637, 826, 963 Western Valley Teeth Co., Ltd.

Westminster College of Pharmacy

88
"Westminster Wisdom" is in-dexed under subjects Westron 657 Westrosol 657

westrosol 637
Wheat-dressing, carbolised 306
Whisky prosecution, cost of 240
Whist scoring-card 262
White, A. J., Ltd. (report) 880
White, E. (port. and biography)

White, E. A., Ltd. (inset) 143
White, R., & Sons, Ltd. (meeting)
152, (reconstruction) 248,
(capital reduced) 661, (report)

White, T. A. (portrait) 385
White, W. C. (will) 502
White precipitate ointment, sampled 528
Whiteaway, Laidlaw & Co., Ltd. (report) 812
Whitehouse, J. (death) 108
Whitla, Sir W. (personal) 278
Whitla's "Pharmaey, etc." 926
Whitsuntide holidays 653
Whittsuntide holidays 653
Whittaker & Frost, Ltd. (reg.) 570

Whittaker & Frost, Ltd. (reg.) 570 Whittakl, Sir J. W. (death) 572 "Wholesale chemist," use of title

Wholesale druggist," use of dewholesale druggist," use of de-scription 649
Wholesale Trading and Pharmacy Acts 692, 702, 903
"Who's Who" 24

"Who's Who" 24
Whooping-cough (culatin for) 123,
(benzol for) 524
Widows' "clause" 754
"Wigmore" nasal douche 813
—syringes 109
Wilart Mfg. Co., Ltd. (reg.) 914

Wilcox, Jozeau & Co. (price-list)

Wilkinson, M. (ereditors' meeting)

313
Wilkinson, W. (death) 662
Williams, A. (will) 108
Williams, A. C. (bankr.) 9
Williams, J. (port.) 623
Williams' Borough Pharmaey, Ltd. (debentures) 248
Williams' Pure Drug Co., Ltd. (removed from register) 763
Williamson, D. (death) 629
Williamson, J. (death) 734
Willia's "Practice of Physick"
174

Wills of deceased persons (see name of person)

Wilson, A. (death) 284 Wilson, G. (death) 31 Wilson, J. (death) 384, (will) 733 Wilson, J. W. (port.) 55, (Parl. candidate) 56

Wilson, W. (personal) 464
Wilson's "Chymistry" 176
Wimbledon Colour and Varnish
Co., Ltd. (struck off) 812
Wincarnis (at pantomime) 42,
(passing-off case) 105, (use of)

Winchester quart," what is? 868 "Winchester quart," what is? 868 Window-displays (hospital) 78, (cough-cure) 171, (quininc wine) 171, (optical) 188, 231, (police action) 241, (pine-oil remedy) 276, (hazeline-snow) 285, (guessing competition) 311, (Erasmic) ing competition) 311, (Erasmic) 414, (laundry requisites) 427, (cod-liver oil) 474, (election) 474, (police action) 527, (carnival window) 582, (soap) 918
Window - dressing competitions 459, 544, 596, 597, 653, (Virol) 647, 683, 686, 941
Window-letters, removing 868
Window-smashes 346, 380, 462, 496; 756, 805
Window-tickets (Marfitt on) 119

Window-tickets (Marfitt on) 119, (to make) 168

(to make) 168
Wineglassful, what is? 955
Wine-licensed premiscs (hours of closing) 834
Wine-licences 204, 241, (scope of)

268, 276, 310, 348, 379, 427, 496, 527, 565, 596, 724, 756, 805, 903, (new charges) 867, (ed.) 920, 968 (see also Spirit-licences, inreased)

Wines, medicated (see Medicated wines)

for medication 758 — for medication 738 Winfield, F. B. (personal) 3 Winfrey, R. (port.) 55, (parl. can-didate) 56, 137, (addresses assis-tants) 713

Wintergreen oil, Bush on 719 — standards 400, 477, 491 — synthetic and natural 289 Winther's Nutritive Saline, Ltd. (struck off) 953 With's Manure Co. (plant-food) 320

520 Witness-fees to chemists (H.C. quest.) 542, 543, 712 Witt, W. (death) 537

Woburn Bordeaux mixture 415, 748 Wolff, F., & Sohn (exhibit) 749, (toilet products) 917

Wolverhampton Chemists' Association 225, 444, 635, 786 Woman-doctor, the first 845 — dispensers, work wanted for

Women Pharmacists' Association

Women Pharmacists' Association 86, 571, Supp. April 30, 859, 941 Women-pharmacists in Germany 531, 567, (in France) 599 Wood, C. E. (Lega's agent) 320 Wood, Vincent (exhibits) 698, 749 Wood's Great Peppermint Cure Co., Ltd. (debenture) 571 Woodall's "Surgeon's Mate" 176 Wood-distilling (book) 455 Woodhouse, A. (death) 435 Woolcock, W. J. U. (personal) 73, 537

537
Wool-fat purification 344
Woollett, H. M., & Co. (Bristol),
Ltd. (debentures) 635
Woolley, Jas., Sons & Co., Ltd.
(dinner) 229
Wootton, A. C. (will) 502
Wootton's "Chronicles of Pharmacy" 704
Woestert Chamista', Association

macy 704 Worcester Chemists' Association 262, 294 Workington Chemists' and Drug-gists' Association 405

Workmen's Compensation

cases (see Legal reports, Work-men's Compensation Act) Worms on lawns, destroying 649, 801

-- in nose 343

— in nose 343

— thread, sulphur for 322

— treatment for 269

Wormsced oil, constituents 151

Wragg (Job) Ltd. (reg.) 914

Wratten & Wainwright, Ltd. (exhibit) 575

Wright, Crossley & Co. 938, 958

Wright & Dutton, Ltd. (debentures) 576

Wright, Layman & Umney, Ltd. (calendar) 57 (inset) 143 (show-

right, Layman & Cimicy, Lid. (calendar) 57, (inset) 143, (show-cards) 155, (coal-tar soap adv.) 285, (report) 412, (c.l.o.) 414, (meeting) 468, (soap adv.) 526, (list) 544, (Australian agency) 573, (liquidation) 696, (exhibit)

749 Wright's "Treatment of Hæmor-rhoids" 306 Wulfing, A., & Co. (Albulactin) 414, (exhibit) 670

Wyley's, Ltd. (exhibit) 749 Wylic's Cleansers, Ltd. (reg.) 953 Wynne, Ald. E. P. (personal) 724

Xametrin 506 Xanthoxylum capense 115 Xenon in Bath water 98 X-rays, lecture 294

Yurmouth (see Great Yarmouth) Yates, J. E. (deed of arr.) 634 "Year-book of Pharmacy" (re-view) 20

Yeast-cells, diffusion in 671

- compressed 64 - extract 293

- powder to make 293
- preparations 166
Yellow colouring 238

Yellow Gleyido 834
Yeomans, Ltd. (reg.) 352, (ointment and pills) 353, (exhibit) 749

Ylang-Ylang oil, characters 151 —— fraud (France) 5 Tokohama, trade 46

York Chemists' Association 296, 677, 792 Yorkshire Relish (law-case) 952 Yost Type writer Co., Ltd. (visited)

610 Young, H. G. (death) 697 Young, J. R. (will ease) 8 Young's Absorbine 42 Ysyn 506

Zum-buk imitation (police charge) 312, 687, (passing-off case) 811, (soap) 469 Zardol 745

Zematone trade-mark (law case)

Zencetum 793 Zentes & Co. (cloth-ball bonus) 503, (exhibits) 698, 749, (show-oard) 848

848
Zimmermann, A. & M. (Piutinol)
169, (exhibit) 575
Zimmermann, C., & Co. (otto of rose prices) 61, (aphrodine) 156, (exhibit) 575, (musk omega) 813, (lysol supply) 843
Zinc chloride poisoning Supp.
March 5.

March 5 ink for 814

- Ink for 514

- lanoline powder 855

- ointment (Ph. Hung.) 18

- oxide and salicylic acid cream (disp. note) 202

Zincochinol 506

Zodiac electro-massago machina

Zotos, Ltd. (exhibits) 698, 749

Zymin 166

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and greenhouses, in which latter there was specially noticeable exquisite specimens of Malmaison carnations. During this part of the journey the ladies of the party discovered the first fruiting specimens of the English Fragaria. A pleasant two hours were spent in the gardens and greenhouses, also in a visit to the interior of the Hall itself. Returning to Ecclesin a visit to the interior of the Hall itself. Returning to Eccleston Ferry, an excellent tea had been provided at the hotel, Mr. A. S. Buck presiding. Afterwards the party were photographed on the lawn. Among those present were Mr. A. S. Buck and party, Mr. and Mrs. Nellings and party, Mr. and Mrs. Last, Mr. and Mrs. Parry and party, Mrs. A. S. Wokes, Mr. and Mrs. Shaw, Messrs. Barr and Jones (Hon. Sceretavice)

"Down the Clyde," etc.

The annual joint excursion of the Glasgow and West of Scotland Chemists' Association and the Edinburgh District Chemists' Association took place on Wednesday, June 22. The Edinburgh contingent started from Waverley Station a few minutes after 6 A.M., and joined the Glasgow members at the Central Station there. Thence they travelled by train to Gourock, where they embarked on board the Lord of the Isles and sailed to Duncon. On the way additions were made to and sailed to Dunoon. On the way additions were made to the company at Greenock and Gourock. On arriving at Dunoon six large brakes were waiting to drive the excursionists, over 100 in number, to Loch Eck. The road lay past Kirn and Hunter's Quay by the side of Holy Loch, through magnificent seenery, a distance of nine miles. There the brakes were left behind, and before the tiny steamer Fairy Queen set sail to Loch Eck Head a photograph of the company was taken from the quay. After a sail of three-quarters of an hour, another drive of six miles was taken to Strachur, on Loch Eyne, where the Lord of the Isles was again boarded Loch Fyne, where the Lord of the Isles was again boarded. From Strachur the steamer crossed the loch to Inveraray, which some visited. The return journey was down Loch Fyne, through the Kyles of Bute, to Gourock. The company was exceptionally favoured with fine weather. The arrangements for the day's excursion were splendidly planned and carried out by Mr. J. P. Gilmour, Mr. A. McMillan, and the West of Scotland Association officials, with the assistance of Mr. Rowland, the Edinburgh Secretary. Neither time nor circumstance afforded opportunity for votes of thanks to the committees, but the less formal expressions of admiration and satisfaction of the day's enjoyment were ample evidence of what was the uppermost feeling of the entire company.

"Tria juncta in Uno." Loch Fyne, where the Lord of the Isles was again boarded.

"Tria juncta in Uno."

There was no fraud upon the labels borne by the three corridor saloons which carried the joint excursion of the Thames Valley, Western, and Croydon Pharmacists' Associations from Paddington on Wednesday morning, June 22. When the 9.15 left *in route* for Bourne End there seemed to be very little space left for the Ealing contingent, which was to be picked up at the next stop; for pharmacists, with their lady friends, to the number of about 130 had already made themselves comfortable under th "Engaged" device. Everybody was there. Everybody looked happy, and everybody congratusolves coinfortable under th "Engaged" device. Everybody was there. Everybody looked happy, and everybody congratulated themselves upon the promising outlook. So wrote the C. & D. man who saw them off, and had to wend his way to the City for a day's work. At Ealing Broadway a good contingent was picked up, among them being Mr. and Mrs. J. F. Harrington. At Bourne End the company embarked on the Balmoral. The organisers, remembering that many of the party would have to start early, thoughtfully provided light refreshments as soon as the launch started. Windsor was reached at about 1.30 p.m., when the party disembarked and proceeded to the White Hart Hotel for luncheon. There they were joined by some Windsor pharmacists and friends from London who had been unable to leave by the early train. About 145 sat down. The toast of "The King" was proposed by Mr. Clement (President of the Thames Valley Association), and Mr. Matthews (Croydon) proposed "The Ladies," Mrs. Harrington replying. Mr. Harrington proposed "The Thames Valley Association," speaking in eulogistic terms of Mr. A. Higgs, J.P. After luncheon the company had a glance round Windsor, many visiting the pharmacy of Mr. Furnival, late Russell & Co., High Street, whose premises were formerly occupied by the gilder and art decorator to the late Queen Victoria. The ceiling and walls of the pharmacy and other rooms are most elaborately decorated with gold, and there are several stained-glass windows—copies of some in the Castle. The party joined the launch again at 4 p.M., and proceeded towards Kingston, tea being served en route under the supervision of Mrs. Affred Higgs, assisted by Miss Betty Tate, Mrs. J. R. Procter, and Mrs. Leonard Higgs. Kingston was reached at about 9.30 p.M., after a most enjoyable day's outing. The committee of the Western Chemists' Association provided the ladies with a casket of chocolate. A photo was taken at Boulter's Look.

THE IMPORTS of chemical-products at the port of Mazatlan, Mexico, during 1909 amounted to 36,822/. (invoice values).

Trade Notes.

THE SACCHARIN CORPORATION, LTD., have removed from 165 Queen Victoria Street, London, E.C., to 10 Arthur Street West, E.C.

Messrs. C. J. Hewlett & Son, Ltd., 35 to 42 Charlotte Street, London, E.C., will close their business premises on Saturday, June 25, on account of the staff's annual outing. At 7.5 A.M. the staff will travel by special train to Ramsgate.

STOCKTAKING.—Messrs. N. W. Mitchell & Sons, Ltd., Bouchon Works, Farrance Street, Limehouse, London, E., inform us that their factory and warchouse will close from July 4 to 7 (inclusive) for the purpose of taking stock. Only urgent orders can be executed during that period.

MESSRS. C. E. FULFORD, LTD., Greek Street, Lccds, have commenced the publication of a series of 3d. Fulford Novels, which promise to be popular, as well as a good advertisement of the Fulford specialities. The first, by Mrs. M. C. K. Baker, is entitled "The Power of Love."

Messrs. Beatson & Co., Rotherham Glass Works, Rotherham, have for private and family reasons converted their business into a private limited company, as Beatson, Clark & Co., Ltd. Mr. C. Beatson Clark and Mr. E. Beatson Clark, the two active partners in the late firm, will act as managing directors.

P.A.T.A. PRICES.—The additions to the Protected List for June are: Bronnley's additional preparations; British Drug Houses additional preparations; Lysol; Marmola tablets; John Morgan Richards & Sons' additional preparations; Salothyme tooth-paste; Sanitas disinfectant sawdust. The removals are: Cressol dentifrice; Glattolin; Hayronne; Irex tooth-powder; Poslam; Rocla water; and Trommer's preparations.

"EQUINOPULY" BOOKLET.—Mr. H. C. John, 54 Piccadilly, London, W., the British agent for Equinopuly, the condition powder for horses, made by Messrs. A. John & Co., Agra, has issued a booklet giving the history, uses, and effects of this veterinary remedy. As an advertising pamphlet for distribution by chemists it should lead to increased business in Equinopuly—a veterinary remedy which deserves to be more widely known in this country. It is a great favourite in India.

"Wellcome" Vaccines.—Messrs, Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C., have issued three coryza vaccines which are for use according to the nature of the infection, as the catarrh may be due to a variety of micro-organisms, singly or combined. Those most frequently responsible are the Bacillus septus (Bacillus coryzar segmentosus) and the Micrococcus catarrhalis. The vaccines are issued in hermetically scaled phials, each containing sufficient vaccine to enable injection of the dose of 100 million organisms (1 c.c. of vaccine). No. 1 coryza vaccine contains B. septus, No. 2 M. catarrhalis, and No. 3 contains 100 millions of each of the two organisms in each c.c., which is the initial dose. The last-named is for use in catarrhal conditions due to an admixture of the two organisms. "Wellcome" brand influenza vaccines, for use where the presence of Bacillus influenza has been demonstrated, are sent out in phials of vaccine containing either 10 millions or 50 millions of bacillus in each c.c.

An Ordinance to regulate patent-medicine advertisements is expected to be issued by the Police Inspector-General within a few weeks.

QUININE TABLETS DUTY-FREE.—In further reference to the paragraph in our issue of May 28 (p. 810) the Indian Government have now decided that quinine and other alkaloids of cinchona, when imported unmixed with other drugs in the form of coated tabloids, tablets, pills, or capsules, shall in future be admitted free of Customs duty. This is the result of the appeal addressed to the Government by the Dooars Planters' Association soliciting that quinine when imported as above should be admitted free of duty. It is pointed out that the sulphate has been largely superseded by sugar-coated quinine tablets, and the annual importations for the treatment of the native population of the Dooars alone amounted to a value of between one and a-quarter and one and a-half lakhs of rupees.

Trade Report and Market Review.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are obtained for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at these prices.

42 Cannon Street, London, E.C., June 23.

THE approaching end of the half-year and stocktaking operations have naturally tended to restrict the volume of business in the various markets, and pricealterations are, with few exceptions, of slight importance. Bromides are still a feature of interest, but an already obscure situation has been rendered more perplexing by the reported withdrawal of the restrictions regarding the quantity which makers may sell. Santonin is dearer. Glycerin remains very firm. Morphine salts are easier in second-hands. Quinine meets with a fair consumptive demand at unaltered rates. Cod-fishing is now closed at Finmarken, and the market for oil is rather lower. The yield of new otto is not up to expectations, and the crop will not now be more than an average. Market opinion in Smyrna estimates the new opium crop will be about 8,000 cases. In other drugs, round buchu-leaves remain at a famine price, this week's arrivals being all in transit. Guinea-grains are scarce and dearer, and firmer prices are asked for Soudan acacia to arrive. Hydrastis, senega, and podophyllum-root are all easier to arrive. Castor oil is steady. Cartagena ipecacuanha is in more inquiry. Lemon oil has an easy undertone, but orange and bergamot are firmer inclined. Among chemicals, benzols and copper sulphate are easier. At the London auction cinchona sold at unaltered rates. Vanilla realised full prices to 1s. advance for good and fine. Shellac, offered without reserve, was easier. The following table shows the principal changes:

Higher	Firmer	Easier	Lower
Guinea grains Santonin Vanilla	Ipecacuanha (Cartagena)	Benzols Copper sulphate Ginger (jam) Hydrastis Morphine salts Quillaia Shellaia	Cod-liver oil Podophyllum 100t

Cablegrams.

Bergen, June 22:—The cod-fishing at Finmarken has now closed. The market for finest non-congealing Lofoten oil is easier at about 99s. to 100s. per barrel, e.i.f. terms.

SMYRNA, June 23:—Twenty cases new opium have been sold at the equivalent of 11s. 6d. for about 10½ per cent. Speculators have bought 15 cases extra Karahissar for July-August delivery at 12s. 6d. Market is maintained. The opinion is that the crop will be about 8,000 cases.

New York, June 23:—Business in drugs is dult. Opium is 15c. lower at \$5.75 per lb. for druggists'. Jalap is firm at 35c. Asafetida is scarce at \$1.25. Curação aloes is lower at $7\frac{1}{2}$ c. Cartagena ipecac. is firm at \$1.45. Cascara sagrada is nominal at $7\frac{1}{2}$ c. per lb. Peppermint oil in tins is unaltered. Hydrastis (golden seal) is firm at \$2. Angostura tonka-beans have advanced to \$2.50 per lb.

Manchester Chemical-market.

There is only a very moderate business passing in heavy chemicals. High-strength eaustic soda, however, is still an exception, and deliveries are difficult to obtain. Soda-crystals and bicarbonate of soda are quietly steady. Ammonia alkali, 53 per cent., is quoted 4l. to 4l. 5s. per ton on rails. Bleaching-powder is easier and somewhat nominal at 4l. 5s. to 4l. 7s. 6d. per ton, softwood casks, on rails. It would appear that second-hand parcels of sulphate of eopper are not yet cleared, but even at under makers' figures buyers show no disposition to operate. Best brands are quoted at from 17l. 7s. 6d. to 17l. 15s. per ton, delivered Manchester. Brown and grey acetate of lime (foreign) are quiet, as also are acetates of lead. Chloride of calcium is in slightly better request at 2l. 10s. Yellow prussiate of potash is quiet at 4\frac{1}{4}d. to 4\frac{1}{2}d. per lb., and soda 2\frac{5}{4}d. Cream of tartar is steady, but acids are rather slow, although citric is in sellers' favour. Dynamite glycerin continues very firm. Coal-tar products move in only moderate volume. Sulphate of ammonia is 11l. 10s. to 11l. 11s. 3d. per ton on rails Manchester.

Heavy Chemicals.

There is a fair demand in the heavy-chemical market both for main and miscellaneous products and values are steady and well maintained. In the Tyne district matters are quiet owing to the annual holidays.

SULPHATE OF AMMONIA tends somewhat towards deelinc, though nominally unchanged at figures as follows: Beckton prompt 11/. 18s. 9d., Beckton terms 11/. 10s., London 11/. 10s., Leith 11/. 17s. 6d. to 12/., Hull 11/. 13s. 9d., and Liverpool 11/. 15s. to 11/. 16s. 3d.

ALUMINA PRODUCTS.—This market is steady, with a fair

ALUMINA PRODUCTS.—This market is steady, with a fair average demand, both on contract and miscellaneous account. Some little attention is also being taken in forward requirements, though nothing of moment has so far been done. Crystal alum lump 5l. 5s. to 5l. 12s. 6d., lump in tierees 5l. 10s. to 5l. 17s. 6d., and ground in bags 5l. 15s. to 6l. 2s. 6d. per ton, free on rails Laneashire or Yorkshire or f.o.b. Hull, Goole, or Liverpool. Sulphate of alumina, purest qualities, praetically free of iron, ordinary strength, 4l. 12s. 6d. to 5l. 2s. 6d. per ton in casks, with usual extras for similar pure quality in higher concentrations and customary allowanees for bags and loose slabs. Aluminous cake 50s. to 57s. 6d., and aluminoferric 50s. to 57s. 6d. per ton, according to quality, quantity, and condition. Hydrate of alumina, purest quality and high strength Al.O., 12l. 10s. to 13l. 10s. per ton free on rails in large easks. Special pulp hydrate of alumina 15s. to 17s. 6d. per cwt. c.i.f. Special pulp quality, dried and in lumps, 5s. to 37s. 6d. per cwt. c.i.f., and ground 37s. 6d. to 40s. per cwt. Aluminate of soda, purest quality and high strength, Al.O., 27s. 6d. to 30s. per cwt., carbonate of alumina 32s. 6d. to 35s. per cwt.

London Markets.

ACID, CARBOLIC.—Current quotations are as follows: Ice crystals, 34° to 35° C., $3\frac{1}{2}d$., 39° to 40° C., $3\frac{5}{8}d$. per lb., in bulk, with the usual premium for 40° detached crystals. Crude 60 per cent. East Coast is $11\frac{1}{2}d$. to 1s., and West Coast $11\frac{1}{2}d$. to 1s. per gal. Cresylie 95 per cent. is quoted from $11\frac{1}{2}d$. to 1s. 2d.

ACID, TARTARIC, is steady at from $9\frac{8}{6}d$. to $9\frac{3}{4}d$. per lb. for foreign, and 10d. for English.

Benzoin.—Subsequent to the auctions sales of fair Sumatra seconds were made at 61. 10s. per ewt., being steady.

Benzols are easier, 50 per eent. being quoted 8d. and 90 per cent. $7\frac{3}{4}d$. per gallon for prompt delivery in London.

Bromides.—The situation remains as much a puzzle as ever, and the action of the German convention in not advancing prices is difficult to understand even by those directly concerned. There appears, however, to be a relaxation of previous sale conditions, inasmuch as it is stated makers have now permission to sell any quantity of the salts, but are not able to book contracts. Last

week, it will be remembered, they were restricted to 4-cwt. lots. This rearrangement of conditions is unsatisfactory to British makers and wholesale druggists, and the former, being naturally dependent on the German convention for supplies of bromine, would like to see less-perplexing conditions before making further commitments. As it is, orders have been accepted by German agents on the 4-cwt. basis, but have not yet been confirmed. As most people are well stocked with the potassium salt, the demand has chiefly been for sodium and ammonium, which is difficult to obtain for prompt delivery.

Buchu.—Good round leaves are practically unobtainable and the value is nominal; 3s. 7d, per lb. was paid privately last week from second-hands in a retail way for green, but there is nothing further to be had at this figure. Several bales of "longs" remaining from last week's auction have since been sold, and a further bale or two of this description is offered at 2s. The s.s. Walmer Castle has brought 51 packages from Cape Town, but we understand they are practically all in transit for New York.

The exports from Cape Town during April amounted to 27,289 lb., valued at 2,192l., and the total exports from January to April 1910 now amount to 146,644 lb., valued at

1.1387.

CINCHONA.—At auction on Tuesday 524 packages were offered, the bulk of which sold at the unchanged unit of q_6^*d . per lb. Of African 22 bales offered and sold, comprising fair bright rather broken Succirubra quill at 3_4^3d . and broken quill at 3_d ; of Java 128 bales offered and 80 sold, including Ledgeriana stem chips at from 4_5^1d . to 4_5^1d . and branch ditto 1_4^3d . to 2_8^3d .; of Ceylon 37 bales and 9 bags offered, the former selling at 3_4^1d . for Ledgeriana natural stem chips and 1_5^8d . for Succirubra root; of East Indian 328 packages offered and 303 sold, including Ledgeriana small stem chips, 1_4^3d . to 2d., natural stem chips 2d. subject, renewed stem 2_8^3d ., root 2_2^1d . Officinalis, natural stem chips 1_5^3d ., small dusty $\frac{2}{3}d$. Succirubra, thick bright split quill 3_2^1d . to 3_3^1d . a natural stem chips and shavings 1_4^1d . to 2_3^8d ., renewed stem chips 1_2^1d ., and root 2d.

The exports from Java to Europe during the first half of

The exports from Java to Europe during the first half of June amounted to 974,000 Amst. lb., against 536,000 Amst. lb. last year and 781,000 Amst. lb. in 1908. The auction to be held at Amsterdam on July 14 will consist of 8,867 packages Ledgeriana and Hybrid, 1,109 packages Succirubra, 74 cases Hybrid and Robusta, or 10,050 packages in all; 561 packages Java coca leaves will also be offered.

CLOVES.—At auction, 100 bales Zanzibar were bought in at $5\frac{1}{4}d$. per lb.; six cases mixed Penang and Zanzibar sold at $8\frac{1}{4}d$. to $8\frac{1}{2}d$. per lb. Privately the arrival market is dull, the sales including November-January shipment at $5\frac{1}{16}d$. and January-March at $5\frac{1}{6}d$. c.i.f. d/w. closing buyers on Wednesday; for delivery the sales include January-March at $5\frac{1}{4}d$. to $5\frac{1}{6}d$., being steady.

COPAIBA.—Filtered Maranham is offered at 2s. 2d. per lb. in tins in cases, and 2s. 1d. in 3-cwt. barrels. Central American is 1s. $10\frac{1}{2}d$.

COPPER SULPHATE is a trifle easier, Liverpool quotations for ordinary brands being from 171. 5s. to 171. 7s. 6d. per ton.

Cubebs.—A recent arrival from Bombay of rather poor quality is held for 10*l*. per cwt.; the last price paid for good berries was 10*l*. 10*s*.

DRAGON'S-BLOOD is in fair demand, with sales of fine reboiled lump, ex-auction lots, at 11%. 10%. per cwt.

Gambier.—Small sales of good free cubes have been made at 38s. per cwt, spot.

Gamboge.—The Falcon, viâ Havre, has brought 14 cases. Ginger.—At auction, 417 barrels and 303 bags were offered, and about 60 packages sold at easier rates, including common dark at 50s. to 51s., and good common at 54s. to 56s. Fair limed Calicut was bought in at 45s., and small and medium bright Cochin washed at 52s.

Guinea Grains.—Spot holders have marked up prices to 100s. per cwt.

GUM ARABIC.—Soudan sorts are slightly higher to arrive at 33s. per cwt. c.i.f., and on the spot fair sorts sell at 34s. to 35s. Senegal is dearer, 36s. f.o.b. being asked for Bas de Fleuve.

HYDRASTIS—To arrive, market is slightly easier, business having been done at 8s. 6d. per lb. c.i.f.; on the spot 8s. 7d. net is wanted.

INDIARUBBER.—Last week the spot market for Para closed lower at 9s. 8d. for fine hard, but by Wednesday the value had risen to 10s. 1d., with business done for September delivery at 10s. 1\(\frac{1}{2} \) d.

IPECACUANHA.—Rather more inquiry is reported for Cartagena, both in London and from Hamburg; most holders ask 5s. 6d. per lb. Five bales of this description have arrived.

The exports from Cartagena during 1908 amounted to 44,200 lb. (3,979*l*.), against 66,220 lb. (6,720*l*.) in 1907 and 98,772 lb. (7,672*l*.) in 1906. Under the official list of exports from Cartagena, ipecacuanha is described as "raieilla."

Jalap.—The exports through the port of Vera Cruz, Mexico, during the fiscal year 1908-09 amounted to 78 tons valued at 4,2961., against 69 tons valued at 2,4951. in 1907-8, and 100 tons valued at 3,6241. in 1906-7.

MENTHOL is steady at 8s. 6d. per lb. spot for Kobayashi, and 8s. 5d. for Suzuki.

The exports from Japan during April were 2,837 kilos.; for the four months ending April 1910 they were 32,493 kin, against 24,070 kin and 23,281 kin for the corresponding periods of 1909 and 1908.

Morphine Salts have an easy undertone; makers quote from 7s. 6d. to 7s. 9d, per oz. for hydrochlor powder as to quantity.

MUSK.—Business has been done in Tonquin blue skin pile 1 of fair quality at 67s, 6d., old style pile 1 at 55s., and pile 3 at 37s. 6d. per oz. China Cabardine is quoted 25s. and Russian 19s. per oz.

OIL, Aniseed, Star.—Small spot sales have been made at $4s.\ 6d.$ per lb.

OIL, BERGAMOT.—A rather firmer tone is indicated from primary markets, some holders endeavouring to obtain better prices as the result of a slight demand; for shipment from 14s. 9d. per lb. c.i.f. and upwards is quoted.

OIL, CASTOR.—Steady. Hull make of first pressing for prompt to December is offered at 281. 10s. per ton in barrels, delivered free on wharf London. Belgian firsts is quoted 281. for prompt delivery, ex-wharf London; good seconds Calcutta is quoted in Liverpool at 321. per 1b.

OIL, CITRONELLA.—Ceylon is steady at 1s. $0\frac{1}{4}d$. for drums and 1s. $1\frac{1}{2}d$. per lb. for cases on the spot.

OIL, COD-LIVER.—Our Bergen correspondent writes on June 20 that the Finmarken fishing is now closed in the western places, but in the east the fishing is still continued (see cable). The total reports up to date give the following quantities for the whole of Norway:

 Catch of cod (millions)
 1908
 1909
 1910

 Yield of cod-liver oil (barrels)
 50,000
 43,000
 35,000

 Livers for "raw" oils (heet,)
 25,100
 27,300
 17,600

The market is extremely quiet, with a declining tendency. Finest non-congealing Lofoten oil has been sold at 100s, per barrel c.i.f., but buyers are showing little interest at present. The exports from Bergen up to date amount to 4,820 barrels, against 6,170 barrels at the same date of last year.

OIL, LEMON.—The demand continues slack at primary sources, judging by advices dated June 18, and the general position remains unaltered. Holders continue reserved, hoping for a favourable development, while buyers continue their hand-to-mouth policy; from 3s. 4d. to 3s. 9d. per lb. c.i.f. London is quoted.

OIL, ORANGE.—Owing to more inquiry, rather better figures have been paid at primary sources: 5s. 8d. is quoted for sweet and 5s. 11d. for bitter, c.i.f. London.

OIL, PEPPERMINT, continues extremely quiet, buyers holding off in anticipation of the new American crop; good Wayne County tin oil is still quoted 7s. 9d. to 7s. 10½d. spot.

The exports from Japan during April were 11.203 kin: for the four months ending April 1910 they were 70,015 kin. as compared with 74,036 kin and 39,886 kin in the corresponding periods of 1909 and 1908

OIL, TURPENTINE, has fluctuated between 44s. and 44s. 6d. per cwt., closing at 44s. 6d. for American on the spot.

OLIBANUM.—There is a continued absence of good and fine drop, which is wanted. Retail sales of siftings have been made at 20s., but even these are now scarce.

OPIUM.—In London business remains of quite a retail description, prices being nominal. Speculative offers of new Turkey are being made from Smyrna at prices varying from 11s. 6d. to 13s. for 10½-per-cent. for July-August delivery, but no business is reported. Persian on the spot is nominal at about 16s. to 17s. 6d.; and good Turkey druggists'—say 11½-per-cent.—is worth about 16s. per lb.

[See cable for business done in Smyrna.]

A Smyrna correspondent, writing on June 10, reports an extremely quiet market, with no demand from consuming centres. One of the three holders forming the suming centres. One of the three holders forming the syndicate, in whose hands there exists a small stock of old, offered some 15 cases of various qualities, but the high prices asked and the comparatively low quality did not attract offers. Six baskets have arrived in Smyrna from the lowlying districts, against six at the same date last year. new arrivals are of very low morphine content, and the guu is moist, chaffy, and dark in colour. Writing on June 11, a second Smyrna correspondent states that news from the interior confirms the report of further rainfall in all the provinces As the cutting could not be put off in the Smyrna districts, it is now taking place under bad conditions. The yield in the neighbouring district of Axar was estimated at yield in the neighbouring district of Axar was estimated at at least 200 cases, but will now probably not amount to more than 70 to 80 cases; the same applies to the Alasheir and Ine-yoll districts. Six cases have arrived, while another six have been received from the Axar district. Writing on June 15, a third correspondent states that the market shows a strong tendency to decline. The reports market shows a strong tendency to decline. The reports which this correspondent has received from the interior conwhich this correspondent has received from the interior continue to be excellent, the weather having improved, and cutting taking place under good conditions. Within the past three days this firm has received over 30 cases new opium of sufficiently good quality. The report has been noised abroad that the opium was of poor appearance, but this correspondent affirms that such statements are ridiculous; samples of new crop submitted to analysis show 10.32 per cent. of morphine. As regards sales which are reported to have taken place in the interior at 100 piastres, it would appear that a small export buyer, thinking perhaps that a purchase of five cases would contribute to steady the position of weak holders, placed an order for delivery for 500 chequis or 400 kilos, at 100 piastres, equal to 11s. per lb.

Pepper (Black).—At auction, Singapore was bought in at $4\frac{1}{8}d$. to $4\frac{1}{4}d$. for greyish to fair, 4d. for good Tellicherry, at 10d. to 1s. for fine heavy shot Mangalore, while 15 bags Ceylon sold at $3\frac{7}{8}d$. for fair. The spot price for fair Singapore is $4\frac{1}{16}d$. The arrival market has been very quiet, with sellers of June-August at $3\frac{1}{2}d$. and August-

October at $3\frac{5}{8}d$. c.i.f. d/w.

PEPPER (WHITE).—At auction Singapore was bought in at $6\frac{3}{4}d$. to 7d. for fair and at 9d. for good; 60 bags Muntok sold at $7\frac{1}{4}d$, for good. Privately, the spot price for fair Singapore is $6\frac{5}{6}d$. per lb. for fair. The arrival market is dull, with sellers of June-August shipment at $6\frac{5}{16}d$., and August-October at $6\frac{3}{6}d$. c.i.f. d/w.

PODOPHYLLUM Root to arrive is rather lower, offering at from 35s. to 40s. per cwt. c.i.f.. according to holder.

QUICKSILVER.—Steady at 8l. 15s. per bottle from importers, and 8l. 12s. from second-hands.

QUININE.—There is a very fair demand for consumption on the basis of previous prices, German sulphate offering at 7d. from second-hands, and Amsterdam at $6\frac{5}{6}d$. per oz.

During the four months ending April the exports of "quinine, quinine salts, and combinations" from Germany amounted to 76,700 kilos., against 45,700 kilos. in 1909, and 42,500 kilos. in 1908.

RHUBARB.—New crop Cauton is offered at $10\frac{1}{2}d$., flat high-dried at $10\frac{1}{2}d$., and round horny high-dried at $5\frac{7}{8}d$. per lb. c.i.f.

Saffron is firm but quiet at 42s. 6d. per lb. net for finest Valencia.

Santonin.—The makers announce to-day an advance of 3m. per kilo., or 1s. 3d. per lb., the quotation for minimum lots of 2 cwt. in one delivery being 37s. per lb. net, and smaller quantities 40s. 9d. net. We understand that a further advance of 2m. per kilo. will be announced on July 1.

Sarsaparella.—The arrivals comprise 31 bales genuine grey Jamaica and 12 of native red.

Senega.—Spot is obtainable at 2s. 2d. per lb. net. Senna.—The Clan Maclachlan from Tuticorin has brought 293 bales, which will be offered next week.

SERPENTARY is held on the spot at 2s. 4d. per lb. net.

SHELLAC.—At auction 352 cases were offered, and about 150 cases sold, mostly without reserve. Fine orange was steady, but second orange and TN qualities were from 1s. to 2s. lower. Garnet was quiet and easier, and button 2s. to 3s. cheaper. Fine pale lemony orange, F.R. in octagon, realised 85s.; TN, good second orange, 74s.; bronze, slightly matted WB, 70s.; dark red matted to blocky, 65s.; Garnet, dark weak "Ruby," 45s.; Button, good No. 1, slightly cakey to hard, 72s. to 73s.; fair thirds, 54s.; good chips, 61s.; small dark Bombay, 58s. to 60s.; stamped J. S. & Co., pure dark cakes, 67s.; pure free tongue, 81s. Privately the market is quiet, fair free TN orange offering at 72s. to 73s.; and for June-July shipment TN is quoted 73s. 6d., c.i.f. Futures have been firm, with a good business, the sales including August at 76s. 6d. to 76s., October at 78s. to 77s. 6d., and December 80s. to 79s.

Soda Caustic of high strength continues very scarce, and it is difficult to get promise of delivery for some weeks: 76 to 77 per cent. is quoted 111., and 70 per cent. 101. 5s. per ton, f.o.b. Liverpool.

Soy is firm, with good thick Wochan offering at 1s. $4\frac{1}{2}d$. per gal. duty paid.

TONKA BEANS.—Angostura appear to be almost unobtainable. Frosted Para are offered at 4s. 6d. per lb.

Vanilla.—At auction only 122 tins were offered, of which the bulk sold at fully previous auction rates to an occasional advance of 1s. for good and fine beans; 27 tins Seyehelles sold, including good dry firsts, 5 to $7\frac{1}{2}$ in., 12s. to 14s.; fair, $3\frac{1}{2}$ to $6\frac{1}{2}$ in., 11s. 6d.; seconds, $3\frac{1}{2}$ to 8 in., 11s. to 11s. 6d.; brown and split, 10s. to 10s. 6d.: 42 tins Bourbon sold, firsts, 7 to 8 in., 13s. 6d. to 14s.; 5 to $6\frac{1}{2}$ in., 12s. 6d. to 13s.; seconds, $3\frac{1}{2}$ to $6\frac{1}{2}$ in., 10s. 6d. to 11s. 6d.; split, 10s. 6d. to 11s. 6d.; 38 tins Mauritius sold: good, $4\frac{1}{2}$ to $6\frac{1}{2}$ in., 13s. 6d. to 14s. 6d.; fair, 5 to $7\frac{1}{2}$ in., 12s. to 13s.; common, 4 to $7\frac{1}{2}$ in., 10s. 6d. to 12s.; various, 10s. 6d. per lb.

Wax, Carnauba.—There are sellers of waxy grey at 120s. per cwt., at which business has been done.

Bulgarian Otto of Rose.

It has often been stated in these columns that it is chiefly the weather during the harvest that makes and unmakes a rose-crop, and that all early forecasts before the yield has actually been bottled are merely guesswork. The present crop once again confirms this old maxim. No other rose-crop has been preceded by a milder winter or more favourable spring than the present crop. The weather during the budding season, too, was all that could be desired, and all the news we had from various sources during the month of May was extremely optimistic, and all forecasted not only a rich yield, but one that was to exceed all previous records. What the month of May promised, the first half of June suddenly and entirely changed. All the reports reaching us now from the rose-district no longer speak of a record crop or even of a rich crop, but all represent the yield as only an average one, estimated variously from 100,000 oz. to 140,000 oz. The daily showers that have fallen in the early part of June all over the rose-districts, followed by intense heat, have blighted the rose-plantations, scorching their leaves and scalding all the young rose-buds, eausing great damage. This sudden and serious damage was further enhanced last week by three hot days—June 12, 13, and 14—attended by dry and hot southern winds, that sucked all the aroma and essence of the remaining rose-buds. It is too early as yet to estimate the extent of the damage done. It is in the nature of all peasants to exaggerate any calamity, and, as is usual, the Oriental speculators will not be slow to make capital of it in order to create an alarm. By the middle of July, when we expect to have verified reports, we shall not in the least be surprised to find that the new crop will again prove a fair one. Many tried to minimise likewise last year's erop, which we represented as 135,000 oz., but when the crop was exported the official statistics show that the 1909 yield was more than 180,000 oz. The present crop, too, taken at its lowest estimate, will hardly prove



Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they are not recorded.

Queries by subscribers on dispensing, legal, and miscellaneous subjects pertaining 'o pharmacy and its allied trades are replied to in these columns, if they are of general interest.

Letters submitted to the Editor for publication (if suitable) should be written on one side of the paper only. Their publication in the "C. & D." does not imply our agreement with the opinions of the writers.

British Pharmaceutical Conference.

SIR,—Invitations to attend the annual meeting of the British Pharmaceutical Conference at Cambridge were posted last week to all members, and it has occurred to us that there may be among your readers some members of the craft who, although not yet members of our body, would be glad of the opportunity of attending what must be a unique meeting of the Conference. Will you permit us to ask them to put themselves in communication with one of us and obtain nomination forms with a view of becoming members and so eligible for the receipt of Conference tickets, which will only be supplied to members. We are expecting as visitors members of the craft from our Overseas Dominions. If there should be others visiting the Mother Country who have not yet decided to attend, we extend them a hearty invitation and assure them of a cordial welcome.

E. SAVILLE PECK, Trumpington Street, Cambridge. H. Finnemore, Guy's Hospital, London.

Sir,—It will save disappointment if you could let your subscribers know that the Headquarters Hotel is full. It could have been filled twice over. ARTHUR DECK. Hon. Secretary B.P.C. Local Committee.

9 King's Parade, Cambridge.

The Manchester Contingent .- Mr. Jas. Grier, The University, Hon. Secretary of the Manchester Pharmaceutical Association, is arranging special railway facilities for local visitors to Cambridge who travel on Monday, July 25. It would facilitate the arrangements if those who intend visiting Cambridge would let Mr. Grier know, stating the number of the party.

Opinions of the Trade Wanted.

SIR,—During the course of a somewhat animated discussion to-day on the respective merits of various salesplans, it occurred to me that, as the article in question was one almost entirely handled by chemists in this country, it would be very interesting to hear the views of some of these gentlemen on the point at issue. Briefly this was : Which is the best policy from the manufacturer's point of view?-

(a) To arrange window-shows and demonstrations in different shops and rely on the trade to push the sales, no

advertising to the public being attempted; (b) To employ travellers (and advertisements in the C. & D.) to get the goods well distributed among the trade, and then spend the whole of the rest of the money available on adver-tising to the public—i.e., creating a demand for the trade mentioning in all ads. that the goods were stocked "by all chemists"; or

(c) Combine both methods.

I should mention that the line about which the discussion arose is a proprietary one that has been on the market for some years; that sales (to the trade) are slowly—very slowly -progressive; that a little advertising to the public has been done in rather a half-hearted way last year and, up to the present, this year; and that in any case the available appropriation would only be a small one. I ought perhaps also to add that business this year shows to date a fair advance on last year. This the advocates of scheme (a) attribute to good salesmanship on the part of the travellers and the marketing this year of "a new size." The advocates of scheme (b), on the other hand, urge that it is due to the advertising which enabled the trade to dispose of last year's purchases and induced them to lay in fresh stocks. They argue that if last year's stocks were on hand to any considerable extent, no amount of persuasion on the part of the travellers would induce business-men to

add to their stocks of (presumably) unsaleable goods.
"Nothing of the sort," retort the (a) schemers. "The trade think the new size will sell not only itself but the stocks remaining on hand of the old size. The trade buy because they believe they can sell, and if they invest money in stocks they will sell them right enough by their own

What do your readers say? Is either side right, and, if so, which? Or is scheme (c) the true solution? Granted that the trade have bought and hold stocks, do they prefer to rely on their own selling powers, on the "pulling power of their windows and the effectiveness of their distribution of printed matter, or do they prefer to have the public sent to them by means of advertisements in the general Press? Advocates of scheme (c) say: "Encourage the trade to show the goods by every legitimate means, at a fair outlay; but then lead the public to sec the displays. Don't rely on the chance passer-by, on the individual chemist's necessarily limited *clientile*, and on such time as he can spare to push one line out of two or three hundred which he stocks.

Hoping that you will find room for this letter, and that some of your retailer-readers will spare time to communicate their views, I am, Sir,

Your obedient servant,

SUB JUDICE. (206/91.)

Speed of Clinical Thermometers.

Messrs. Perkin, Son & Co., Ltd., writing on this subject, enclose copy of a letter written a few years ago by Dr. R. T. Glazebrook, of the National Physical Laboratory, in which he said:

"As to the test for rapidity, it is a difficult one to apply. It depends in great measure on the skill, or possibly on the mouth, of the observer; the time will vary with the position of the thermometer in the mouth, the amount of saliva present, and other factors. Our time represents what the instrument is capable of doing under favourable conditions, not the extreme time it may be expedient to allow. The test aims at enabling the purchaser to assure himself that the thermometer is, relatively to others, a rapid one, and that, when used by our observers, it has been found to operate within the time stated. The tests are made actually in the mouth of the observer. We have endeayoured to devise an artificial mouth, such as a moist piece of sponge or felt, in the hopes of making the test more mechanical, but at present have not succeeded."

Prescribing Opium.

Sir,—Wishing to prescribe opium for a patient, but did not want her to know what she was taking, I wrote out the following prescription:

Pulv. papaver somniferum ... gr. j. ··· gr. v.

Sac. lac. ad ... Ft. pulv. Mitte tales vj. Sig.: Pulv. j. hora somnium.

This was taken to six chemists, not one of them knowing what it was. One said he could not make out the word 'papaver"; another said he never heard of it; another that he had not got it, but might have it to-morrow; and another, to hide his ignorance, asked the bearer, "Is your doctor erratic?" I should have thought that the merest tyro in pharmacy would have known the synonym for Faithfully yours,
GEORGE REGINALD JONES

L.R.C.P.Lond., M.R.C.S.Eng.

Whalley Range, June 17.

[In a supplementary note Dr. Jones says: "Some years ago I read in 'The Lancet' an article on prescriptions, etc., and in it was stated, among other things, that medical men wrote 'papaver somniferum' instead of the word 'opium,' and ever since reading that article I have prescribed it in the form stated. Some chemists have understood what was meant, others have not."]

French Seales.

SIR,—I thought it might interest you or your readers to know how I have fared with two pairs of French scales, one pair almost new. I have just sent them to our local inspector for verification. He wanted to know rather minutely what I used them for, and on being told that I sold drugs and tobaccos he at once cancelled them as not conforming to the new regulations of the Board of Trade,

at the same time kindly intimating that these or any other kind could be used providing that they can be altered to meet the new requirements. The inspector suggested that meet the new requirements. I should send the scales to London and get them altered. I immediately wrote my London house, and back came the answer, "Scales obsolete and cannot be altered." The inspector also cancelled several brass grain weights. To the naked eye these appeared quite clean and as good as It puzzled me to think how in the world these could get lighter, as I seldom use them, so I enclosed them to my London house for their opinion, and this is their verdict: "We have tested the weights sent, and find they are not now accurate. The explanation of this is that the metal oxidises owing to the action of the air, and after some time this causes the weights to alter." Oh, dear!oh, dear! Yours faithfully,

J. J. (203/22.)

[The decision may be right as regards our correspondent's scales, but French scales are not made obsolete by the Board of Trade regulations if they are correct, or can be made and kept so. That is the statement made to us by Major MaeMahon, Superintendent of Weights and Measures, Board of Trade (see C. & D., October 9, 1909, p. 576), and subsequently repeated to representatives of the Pharmaceutical Council.— Editor C. & D.

Subscribers' Symposium. (Information Solicited or Supplied.)

Sticky-fingered Brigade in Birmingham.

Some years ago I was assistant to an old-established chemist in an historic county town who made a speciality of lavenderwater. Bottles disappeared rather rapidly from the counter-stand, so a special batch with a particularly noxious odour was put up and exposed. Shortly afterwards several ladies complained about the last bottle of lavender-water they had bought. The chemist heard their complaints, and usually said, "I do not think you bought that bottle of lavenderwater, madam," putting a slight emphasis on the "bought." We did not miss any more lavender-water.—Jeff. (201/73.)

Post-dated Cheques.

I think a "Lancashire Chemist" (192/14) is under a wrong impression as to post-dated cheques. A bank is bound to cash a eheque dated a year ahead the moment it is presented; otherwise, why give three or six months' bills? It was pointed out to me some years ago that post-dated cheques were illegal, and, as a matter of fact, amounted to a fraud, being a loss to the revenue.—L.D. (202/33.) [By the Bills of Exchange Aet, Section 13 (2), a cheque is not invalid for being ante-dated, post-dated, or dated on a Sunday. A banker is not bound to pay a eheque until the day it is dated, and if he pays before that, it is at his own risk.—Editor C. & D.]

Legal Queries.

F. & G. (194/30).—Sec C. & D. Diary, p. 210.

Rusticus (200/50).-It is not necessary for a chemist and druggist with the Minor certificate to get the shilling annual certificate from the Pharmaceutical Society for exhibition in his premises. The Minor certificate is enough, provided the holder's name is on the current register.

H. E. M. (203/38).—Manufacturers of proprietary medicines containing poisons and the sale of the same by wholesale are exempt from the condition applicable to the retail sale-namely, that the sellers must be registered chemists and druggists or companies carried on in accordance with the Poisons and Pharmacy Act, 1908, Section 3.

F. C. J. (201/18).—Liecnces granted for the sale of medicinal wines only mean, apparently, wines which are medicated, but not sufficiently so to be non-exciseable. Burgundy, invalid port, and champagne are not medicated wines, but are frequently prescribed medicinally. Sales of these, whether for medicinal purposes or not, under the licence once it is ob-tained are legal, but the Magistrates may refuse renewal of the licence if they find that the licensee has broken any condition which he entered into when the lieence was granted.

(18/6).—The whole matter of the curriculum and reciprocity section of the Poisons and Pharmacy Act was fully gone into in our Colonial Issue, April 23. Army dispensers will be admitted to registration as chemists and druggists when they satisfy the Pharmaceutical Society that they have conformed to the conditions to be laid down in by-laws. These conditions will be precisely the same as those which Minor candidates have to conform to, so far as education,

training, and examination are concerned. It will be some years before this will happen, and everybody will have ample warning. .

Dispensing Notes.

Percentage Solutions.

SIR,—Re "Percentage Solution" in your "Dispensing Notes" column, p. 937, your remarks are rather misleading, for 1 grain in 110 minims is a 1-per-cent. solution, and not 1 grain in 100 minims, as stated. Faithfully yours. Sheffield.

H. B. Hammond.

SIR,—May I direct your attention to a slight error, I fear? Re "A Fercentage Solution," p. 937, C. & D., June 18, you state: One grain of the hydrochloride to be used with 100 minims of water, and use 60 minims. It ought to be: 100 minims of water, and use 60 minims. It ought to be.
Use 1 grain of the cocainæ hydrochlor, to 110 minims of
water, and take 60. At least, I have been taught so.
Yours faithfully,
Stockton-on-Tecs.
W. J. Clarke.

A Petroleum Emulsion.

SIR,—I have made up the following formula for a petroleum emulsion, but the emulsion separates on standing, and is not white like commercial emulsion. The doctor thinks the recipe should produce a thick, white, inseparable emulsion, and has seen it so made from the formula. Can this be done? the finest powdered gum and the purest petroleum oil.

Ol. petrolei liq. ... 3,200 m. Pulv. aeaciæ ... 1,600 gr. Ol. amygd. ess. Elixir glusidi 5 m. 80 m. ... Aq. einnam. ad 20 oz. Fiat emulsio.

Yours faithfully, H. I. (190/58.)

[Emulsions prepared with acacia always separate unless made with an undesirable quantity of the gum. Aeaeia breaks up oil beautifully, but does not impart sufficient "body" to the emulsion to prevent separation. Tragacanth in suitable quantity supplies that which aeaeia lacks, and by judicious use of the two a good, white, and non-separating emulsion can be produced from a formula such as yours. Fowdered acacia of commerce is not well suited to the preparation of emulsions. It usually eontains dust-partieles in sufficient quantity to give an emulsion that ought to be white sufficient quantity to give an emulsion that ought to be white a grey appearance, and it is nearly always sour. Your failure to get the emulsion white has probably been due to the powdered gum. We have had like experience ourselves. Take an equivalent of recently made B.P. mueilage of acacia—about 7½ oz.—and place it in a mortar, add gradually the oil, establishing a nice white "grippy" cmulsion by the time the first half of the oil has been added, then mix in the cinnamon-water and other things. So made, the emulsion is perfectly white; it separates, however, leaving about an eighth of clear liquid. Tragacanth, 2 or 3 grains to an ounce, remedies this. Rub it up with the mueilage. As a point of remedies this. Rub it up with the mueilage. As a point of commercial interest we may add that the acacia employed in making the mueilage used in our experiments cost 1s. 2d. per lb. Fair-quality powder would cost three times that, and even then might not be satisfactory.]

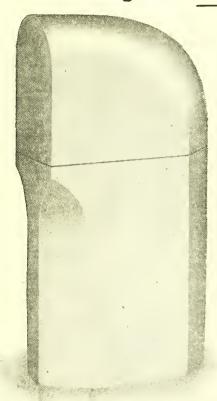
Our Retrospect.

(From the " C. & D.," June 15, 1860.)

Pharmacy in the United States.

The oldest institution of Pharmaceutists in the United States is the Philadelphia College of Pharmacy; this body originated in an effort on the part of the medical profession to make certain restrictions upon the business of preparing and dispensing medicines. The originators of this movement seem to have had in view a plan of education for apothecaries, in eonnection with the University of Pennsylvania, which is located in this city, and had at that time the largest medical school in the country. The apothecaries rallied under the stimulus of this interference, and in 1828 formed an organization of their own, which were shortered by the Lorgicktone. tion of their own, which was chartered by the Legislature of Pennsylvania. By this expression is meant that having peti-tioned the representative law-making body, elected by the people of the State, for an act of incorporation, that body, eonsisting of a senate chosen by the counties, and a house of eonsisting of a senate chosen by the counties, and a nouse of representatives chosen by smaller districts, townships, &c., and a governor chosen by the whole State, granted an act enabling this association to have one common seal, to sue and be sued, to hold and convey property, to establish a faculty or learned body, to grant degrees, and in various ways to protect and promote the interests of those engaged in the preparation of medicines, and of the public at large.

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which are supplied in three grades, all highclass British make, at the following retail prices:

	Large S	ize. Small	Size.
SOLID SILVER	34 - ea	ch. 24	6 each
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All users of Odol will appreciate the attention of the Chemist in reminding them of this exceedingly handy travelling case, which prevents the Odol from coming into contact with other articles in the dressing-bag or trunk in the event of accidental breakage of the flask.

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Name, address, &c. of customer in any approved style of lettering will be etched on the Odol tumblers.

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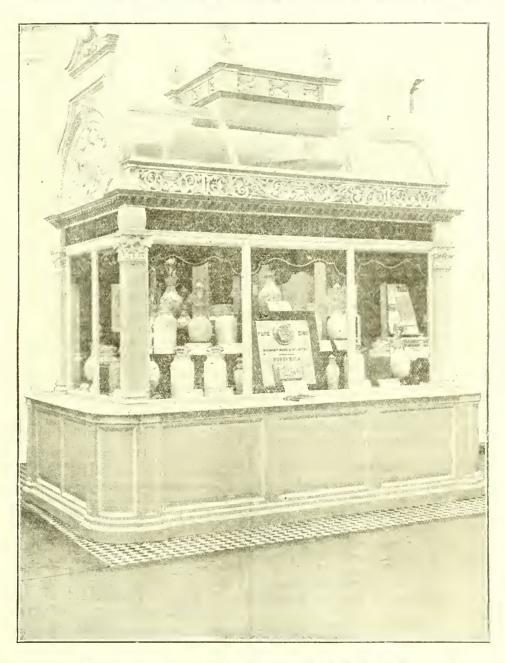
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It allays the itching of PRURITUS ANI instantaneously.

Its utility as a specific for this trouble is recognised by practitioners of every school and every nationality.

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NOTICE.

Owing to a friendly arrangement made with Messrs. Bourjois, the Parisian Makers of Java Powder, it is arranged that the Shen Poudre de Riz Java shall now be known as Shen Poudre de Riz YENA as illustration. No other alteration will be made.

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Autumnal Catarrh, Rose Fever, and Similar Complaints.

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Benz. B.P., 7 lbs. @ 1/8 lb.; 1 lb. @ 2/- lb.

** at 2/4 io. 1 io. 2/6 io. **

**, Benz, B.P., 7 lbs. @ 1/8 lb.; 1 lb. @ 2/- lb. **

**, Boric Pulv., 3 cwt. @ 28/- cwt.; 1 cwt. @ 28/6 cwt.; 1 evigd. 3/- cwt. extra. **

**, Carbol Xtls., 39/40; 2 ½ cwt. Drums @ 4½d. lb.; 56 lbs. @ 5d. lb.; 10-lb. Tins @ 5/- each; Single Bots. 11d. lb.; Crude Black, 45 Gall. Casks @ 10d. gall.; 1 Gall. Tins @ 1/5 each.

**Adeps Benz, B.P., 28 lbs. @ 9¾d. lb.; 7 lbs. @ 10½d. lb.

**Adeps Benz, B.P., 28 lbs. @ 9¾d. lb.; 7 lbs. @ 10½d. lb.

**Aloes Barb., English ground, 28 lbs. @ 3/- cwt.; 14 lbs. @ 8/- cwt.; 18 lbs. @ 12/- cwt. extra.

**Aloes Barb., English ground, 28 lbs. @ 66/- cwt.; 7 lbs. @ 8d. lb.

**Aloin, B.P., 1 lb. @ 3/9 lb.

**Amyil Pulv., 10 cwt. @ 12/3 cwt.; 2½ cwt. @ 12/9 cwt.; 1 cwt. @ 12/3 cwt.; 2½ cwt. @ 12/9 cwt.; 1 cwt. @ 14/6 cwt.

**Apiol., 1 lb. @ 13/9 lb.

**Aqua Anethi Conc. 1-40, 1 lb. @ 2/11 lb.

**, Cinnam. Conc. 1-40, 1 lb. @ 3/1 lb.

**, Cinnam. Conc. 1-40, 1 lb. @ 3/1 lb.

**, Aurant. Trip., 53 lbs. @ 17/6; 6 lbs. @ 7d. lb.

Aurant. Trip., 53 lbs. @ 17/6; 6 lbs. @ "7d. lb.

Aurant. Conc., 1-40, 1 lb. @ 6/1 lb. Rosæ Trip., 53 lbs. @ 17/6; 6 lbs. @ 7d. "lb.

Rosæ Conc. 1-40, 1 lb. @ 6/- lb.

Cream Tartar, 98% powder, 1 cwt. @ 76/cwt.; 7 lbs. @ 9d. lb.
Creosotum Beechwood, P.B., 22 lbs. @ 2/- lb.;
*7 lbs. @ 2/2 lb.

Ess. Bergam. (Oil), 12 lbs. @ 14/- lb.; 1 lb. @ 15/6 lb., not guaranteed absolutely pure, Kes, Limonis (oil) original coppers, 12 lbs. @ 3/- lb.; 61-lb. bots. @ 3/6 lb., not guaranteed absolutely pure.

*Ess. Pear (artificial), Jargonelle, 5 lbs. @ 1/6 lb.; Bergamot, 2/6 lb.

*Ess. Pineapple, 5 lbs. @ 3/4 lb.

*, Raspberry, 5 lbs. @ 2/2 lb.; 1 lb. @ 2/6 lb.

", Raspberry, 5 lbs. @ 2/2"
lb. ", Vanilla Beans, 5 lbs. @ 4/4 lb.; 1 lb. @

Ext. Cascara Sag. Liq., B.P., 10 lbs. @ 1/2 lb. *Ext. Ergot. Liq. P.B., 5 lbs. @ 2/11 lb.; 1 lb. @

*Ext. Bright Edg. Fib., or is. @ 2/11 b. 3/2 lb. *Ext. Glycyrrh. Liq. B.P., 6 lbs. @ 1/4‡ lb. *, Hamamelis, Liq. P.B., 5 lbs. @ 3/5 lb. Ext. Hyoscyam., Solid, B.P., 3 lbs. @ 4/11 lb.;

Ext. Hyoscyam., Solid, B.P., 3 lbs. @ 4/11 lb.; 1 lb. @ 5/3 lb.
*Ext. Ipecac. Liq. P.B., 5 lbs. @ 14/- lb.; 1 lb. @ 15/- lb.

*Ext. Nucis Vom. Liq. B.P., 5 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.; solid, 5 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.

Ext. Opii Solid P.B., 1 lb. @ 36/- lb.
*Ext. Opii Liq. B.P. 5 lbs. @ 3/11 lb.; 1 lb. @ 4/2 lb

Ext. Quassiæ, Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6/4 lb.

*Inf. Caryoph. Conc., 1 to 7, 6 lbs. @ 11d. lb.

nf. Caryoph. Conc., 1 to 7, 6 lbs. @ 11d. lb., Cascarilla Conc., 1 to 7, 6 lbs. @ 1/2 lb., Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/7 lb., Gentianæ Co., 1 to 7, 6 lbs. @ 1d. lb., Quassiæ Conc., 1 to 7, 6 lbs. @ 9d. lb., Rhei Conc., 1 to 7, 6 lbs. @ 1/5 lb., Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb., Seneæ Conc., 1 to 7, 6 lbs. @ 2/- lb., Valerian Conc., 1 to 7, 6 lbs. @ 2/- lb.

inseed c. Oil, Crusbed, 3 cwt. & 20/6 cwt.:

inseed c. Oil, Crusbed, 3 cwt. & 20/6 cwt.;
1 cwt. @ 21/6 cwt.

*Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 8d. lb.; 1 lb. @ 10½d. lb.
, Ammon. Aromata, 6 lbs. @ 9d. lb.
, Antim. Cblor. Pure, 8 lbs. @ 6½d. lb.
, Arsenicalis, B.P., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
, Arsenii Hvdrochlor, P.B., 7 lbs. @ 4d. lb.;
, Creable Byels, et Cubeb. 1 lbs. @ 7d. lb.

Copaiba Bucba et Cubeb, 5 lbs. @ 2/6 lb.; 1 lb. @ 2/10 lb.

1 lb. @ 2/10 lb.
Easton., p.s. 1-3, B.P., 1 lb. @ 3/- lb,
Ferri Iod. p.s. 1-7, 1 lb. @ 5/9 lb.
Ferri Perchlor. Fort. P.B., 7 lbs. @ 4d. lb.
Ferri Pbospb. Co. p.s. 1-7, 7 lbs. @ 1/6 lb.
Hamamelidis B.P., 6 lbs. @ 1/- lb.
Hypopbosph. Co. p.s. B.P.C., 1 lb. @ 3/4 lb,
Iodi Fort. B.P., 5 lbs. @ 4/9 lb.
Opii Sed., 5 lbs. @ 3/3 lb.
Pruni Virg. p.s. 1-7, 5 lbs. @ 2/2 lb.
Rheados pro syr., 1 to 7, 5 lbs. @ 1/11 lb.;
Rhei p.s. 1-7, 6 lbs. @ 2/2 lb.
Santali Co., 1 lb. @ 3/- lb.
Sennæ Dulc., 6 lbs. @ 1/4 lb.

,,

Liq. Sennæ pro Syr. 1-7, 6 lbs. @ 2/- lb.
Strvchnioæ, Hyd. B.P., 6 lbs. @ 1/6 lb,
", Tolut. pro Syr. 1-7, 6 lbs. @ 1/3 lb.
", Trinitrioi B.P. 1 lb. @ 6/1 lb.

Mag. Calc. Levis, 56 lbs. @ 8d. lb.; 5 lbs. @ 10d. Mag. Calc. Levis, 56 lbs. @ ou. 10., 1 lb. @ 1/- lb.

Mag. Calc. Pond., 7 lbs. @ 1/10 lb.; 1 lb. @ 2/- lb.

Mag. Carb. Pond., 56 lbs. @ 6½d. lb.; 7 lbs. @ [4d. lb.]

[4d. lb.]

74d. lb. [4d. lb.]
Mag, Carb. Levis, 70 lbs. @ 3d. lb; 7 lbs. @
Mag, Cit. Gran, 28 lbs. @ 8d. lb; 6 lbs. @ 9d.d.lb.
Manna, fine New Flake, 14 lbs. @ 3/- lb.; 7 lbs. @
3/2 lb.; 1 lb. @ 3/8 lb.
Mentbol, dry white cryst., 60 lbs. @ 8/6 lb.;
5 lbs. @ 9/1 lb.
*Mist. Sennæ Comp. B.P., 20 lbs. @ 6½d. lb.;
6 lbs. @ 7½d. lb.
Morphinæ Acet. Hydrocblor. or Sulph., Pulv.
B.P., 25 oz. @ 7/11 oz.; 16 oz. @ 8/1 oz.;
8 oz. @ 8/2 oz.; 1 oz. @ 8/6 oz.; Pur.
Præcip., Bimeconate or Tart., 1 oz. @ 11/oz.

Sennæ Dulc., 6 lbs. @ 1/4 lb.

PRIZES OF TWO GUINEAS AND ONE GUINEA as advertised, 23rd April, 1910, have been awarded and remittances posted as follows:

1st Prize. -Mr. HAROLD MILLER, M.P.S., 389 High Street, Cheltenham. 2nd Prize.—Mr. F. JASPAR JOHNSON, 232 Abbeydale Road, Sheffield.

And our very best thanks are hereby tendered to the enormous number of other Competitors who have taken such an Interest in our Scheme and who have brought to our notice many valuable points and suggestions. We hope in the near future to so improve our methods on the basis of these suggestions that it will be quite possible for Chemists of moderate capital to compete successfully with limited undertakings with large resources.

*Aqua Samb. Trip., 53 lbs. @ 23/6; 6 lbs. @ 8d. 1b.

Samb. Conc., 1-40, 1 lb. @ 6/1 lb Laurocerasi, 53 lbs. @ 17/6; 6 lbs.

@ 7d. lb. Menth. Pip. Conc. 1-40, 1 lb. @ 3/- lb.

Bismuth, P.B. Carb., 7 lbs @ 7/11 lb.; 3 lbs. @ 8/1 lb.; 1 lb. @ 8/3; subnit., 1/-lb. less, not more tban 7 lbs. assorted to each £5 order. This is a Special Offer for Mixed General Orders of £5 value and upwards. Orders not in accordance with above 6/4 Orders not in accordance with above, 6d. per 1b. extra

Camphor, English Flowers, "not artificial," 5 lbs. @ 1/10 lb; ½ oz. 7 lbs. @ 1/11 lb; ½ oz. 7 lbs. @ 2/3½ lb. Crude, good white about 92% as imported, 140 lbs. @ 1/4 lb.; 28 lbs. 92% as im @ 1/5 lb.

Cetaceum: No. 1, fine white, 64 lbs. @ 1/3 lb.; 7 lbs. @ 1/4½ lb.; powder, 7 lbs. @ 1/10 lb. *Chlorodyne, 5 lbs. @ 1/11 lb.

*Chlorodyne, 5 lbs. @ 1/11 lb.
*Chloroform, pure B.P., 12 8-lbs. @ 1/7½ lb.; 8 lbs. @ 1/8½ lb.; 6 1-lb. botts. @ 1/10½ lb.
Cblorophyll, 7 lbs. @ 5/-lb.; 1 lb. @ 5/9 lb.
Cocaine Hydrochlor., B.P., 25 ozs. @ 6/10 oz.; 4 oz. @ 7/3 oz.; 1 oz. @ 7/6 oz.
Codeina, 1 oz. @11/5 oz.; Pbosph., 1 oz. @ 9/11 oz.; Hydrochlor. or Sulph. 1 oz. @ 10/7 oz.
Composition Powder (Coffin's), 1 cwt. @ 58/cwt.; 7 lbs @ 7½ d. lb.
Conf. Sennæ P.B., 14 lbs. @ 8d. lb.; 7 lbs. @ 8½ lb.

81 lb.

Ext. Sarsæ Co. So lid; 7 lbs @ 4/- lb.; 1 lb. @ 4/6 lb.

errl Ammon. Cit., P.B., 28 lbs. @ 1/41 lb.: 7 1bs. @ 1/7 lb. Ferri Carb., 1 cwt. @ 21/- cwt.; 28 lbs. @ 3d.

Ferri et Quininæ Cit., P.B.; 500 ozs. @ 3d. oz.; 100 ozs. @ 3dd. oz.; 25 ozs. @ 3dd. oz.

Glycerin. Opt., D.D., 1·260 P.B., 1 cwt. @ 99/-cwt.; 56 lbs. @ 100/-cwt.; 12 lbs. @ 1/1½lb.

examethylentetramine, 7 lbs. @ 2/- lb.; 1 lb.

| Mexamethylentetramine, 7 lbs. @ 2/- lb.; 1 lb. @ 2/3 lb. @ 2/5 lbs. @ 47/- cwt.; Californian, ½ cwt. @ 36/- cwt.; 28 lbs. @ 47/- cwt.; Californian, ½ cwt @ 56/- cwt.; 7 lbs. @ 8d. lb. Hydrargyrum P.B., 75 lb. bottle @ £8 19s. 6d; 10 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.; Amon, 28 lbs. @ 3/1 lb; c. Creta, 28 lbs. @ 1/5 lb.; Iodid. Rub., 28 lbs. @ 8/9 lb.; Oxid. Rub. 28 lbs. @ 3/1 lb.; Perchor. lump, 28 lbs. @ 2/7½ lb.; Subchlor., 28 lbs. @ 2/10 lb.; Sulpb. c. Sulph., 28 lbs. @ 2/1½ lb.; 7-lb. quantities 1d. lb. extra, 3 lb. quantities 2d. lb. extra, 1 lb. quantities 3d. lb. extra.

"Int, Aurant. Conc., 1 to 7, 6 lbs, @ 1/1 lb.
", Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb,
", Buchu Conc. 1 to 7, 6 lbs. @ 1/5 lb.
", Calumbæ Conc., 1 to 7, 6 lbs. @ 11d, lb

cbthyol Ammon., 3 lbs. @ 10/9 lb.; 1 lb. @ 11/- lb.

Mag. Caro... 7½d. lb.

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MANCHESTER.—Old-established Business for immediate Sale; good stand; no opposition, and Dental practice combined, with private house and side-door; full particulars on application; low price for cash; no agents. 89/21, Office of this Paper.

MANCHESTER (near). — Old-established Mixed Business in populous thoroughfare for Sale; well stocked and unusually fitted; good opportunity for capable man; none but bonn-fide purchasers entertained; reasonable offer accepted; advertiser, leaving trade, must close at once. 87/31, Office of this Paper.

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BUSINESSES FOR DISPOSAL

(continued.)

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RETAIL.

PATH.—Unqualified Assistant, at once, for summer months; good Dispenser; outdoors; half-day. Full particulars, photo, and salary required to E. J. Appleby & Co., 8 Argylc Street, Bath.

BALHAM.—Assistant, married (no family), for good Retail Dispensing, and Prescribing business; Photographic knowledge necessary; qualification not essential; references must lear strictest investigation. Full particulars, salary, etc., "Aspirin," 13 Ramsdeu Road, Balham, S.W.

PRIGHTON.—Qualified Assistant (outdoors) for Light Retail, used to modern style of business and thoroughly capable of taking charge; references must bear strictest investigation. Apply, giving full particulars as to experience, age, salary required, and enclose photo (if possible), to "Chemist," 132 Hollingbury Park Avenue, Reighton. Brighton.

RISTOL.—Wanted, a smart Junior (about 20) for brisk eash Retail; good stockkeeper; half-holiday weekly; one hour alternate Sunday evenings. Send full particulars and photo (if possible) to Dunford, Pharm. Chemist, 8 North Street, Bedminster, Bristol.

BRISTOL. — Qualified and unqualified Assistants required for Relief work at Branch shops during holiday season; satisfactory references necessary; hours 8 to 8.50, Fridays 9.30, Saturdays 10.50; no Sunday duty; one atternoon each week. State references, salary, and enciose photo, to Managing Director, Hodder & Co., 5 Nelson Street, Bristol.

DEMERARA (BRITISH GUIANA).—Capable Assistant with Store experience; 3 years' agreement; passage paid; salary £150 first year, £165 second year, £180 third year; age from 22 to 26 years. Apply, with photo and copics testimonials. to "R. L.," c/o S. Maw Son & Sons, 7 to 12 Aldersgate Street, E.C.

EASTBOURNE.—Improver wanted for high-class Dispensing business. State salary (outdoors), with usual particulars, enclosing carte, to H. R. Browne, Pharmaceutical Chemist, Eastbourue.

HULL AND SCULCOATES DISPENSARY.—The Committee of the above require, on or about Support . HULL AND SCULCOATES DISPENSARY.—The Committee of the above require, on or about September 1, a Lady Dispenser, at a salary of £50 per annum; hours of attendance, 9 to 1; canvassing not allowed; applications, stating age and qualifications, accompanied by testimonials (which will not be returned), should be sent, ou or before July 7, to the undersigned.

J. E. D. STICKNEY, Hon. Secretary.

Crown Charabers, Land of Green Ginger, Hull, June 22, 1910.

INLAND watering place, Kent; qualified Assistant, age about 24, for good-class Dispensing business; indoors. State usual particulars and salary required to 87/13, Office of this Paper.

INVERNESS.—Wanted, at once, 2 Assistants, Senior and Junior, with good Dispensing and Store experience and knowledge of Photography. State salary expected, giving full particulars of experience and references, enclosing photo, to Mayors, Chemists, Targerre and Property of the Property

LANELLY. -£2 10s.; qualified Assistant to manage Branch; must be sober; age 30 to 40. Smart men only apply, Evan Jones, Chemist, Llanelly.

L ONDON, W.—Qualified Assistant; about 24; good-class Dispensing business; also an Unqualified and Junior. All particulars to Harding, The Avenue, West Ealing.

LONDON, S.W.—A Junior (age about 19 years); indoors; half-holiday weekly. Apply, with photo, to Summers, Pharmaceutical Chemist and Optician, Streatham Common, S.W.

ONDON, S.W.—Qualified Junior Assistant required by July 9; must be accurate Dispenser and used to good-class business Apply, personally, or if by letter state full particulars as to experience and enclose photo (to be returned), Ivor P. Barnes, 225 and 227 Knightsbridge, London, S.W.

LONDON, S.W.—Required, at once, an outdoor Assistant to take charge of a branch; Optical experience would be an advantage, Apply, personally if possible, or if by letter state salary and particulars, to "Chemist," 53 Harley Street, London, W.

I ONDON, S.W.—Wanted, at once, Junior Assistant in Dispens-ing business; indoors. Apply, with full particulars and state solary required, also photo, to F. Wilde, 100 Brompton Road, S.W.

ONDON, S.W.—Qualified Assistant; not under 24 years of age; accustomed to good-class business; indoors; 3 kept; personal application preferred, or give full particulars as to age, height, experience, and salary expected, to H. S. Hairsine, 47 Haymarket,

ONDON Suburb.—Qualified Manager, married, for Branch, to live on premises; thoroughly experienced and used to modern trading; nice house (with garden) and gas free. Please state full particulars, age, height, salary required, and when disengaged, with photo, C. N. Coles, F.S.M.C., Chemist and Optician, 804 High Road, Tottenham.

LONDON, W.-Unqualified Junior; outdoors. Personal applica-tion to W. Roberts & Co., 2 Rupert Street, W.

LONDON, W.—Assistant wanted; must thoroughly understand his business, be quick at counter, and accurate Dispenser; used to Store trade and have had Loudon experience; good salary to right man; outdoors. Apply, Gould, 10 High Road, Chiswick, W.

LONDON, W.—A competent Assistant; indoors; used to good-class business; not under 25 years of age. State age, experi-ence, and salary expected, to 87/38, Office of this Paper.

L ONDON (S.W. Suburb).—Qualified Assistant (about 25); also a smart Junior. Please give full particulars, stating salary (in or out doors), to 89/16, Office of this Paper.

L ONDON, E.—Wanted, a single qualified man (under 30), with at least one year's good reference, to Manage Branch; salary commencing at 55s. week (outdoors), rising to 60s. in 3 months if satisfactory. 89/20, Office of this Paper.

Myfair, W., require a qualified Assistant, about 23 (indoors); 3 kept. Apply, "H. J. K.," c/o above.

ONDON, S.W.—Required, Dispenser, Minor qualification; hours of work approximately 8.45 to 6, Saturdays till 2 P.M.; no Sunday duty; salary to commence 45%, to advance to 50%, after six months' satisfactory service; duties, Dispensing; 14 working days' annual vacation; age under 30. Reply, stating age, full particulars, etc., 796, Seli's Advertising Offices, Fleet Street, Loudon.

ONDON, S.W.—Assistant; indoors; about 24, or older; abstainer; 3 kept. Full particulars as to salary, etc., with photo, Tupholme, Cobherne Terrace, Earl's Court, Londou.

L ONDON, N.—Smart Junior wanted for quick Store business; our doors; able to take occasional charge; hours 9 to 10, Saturdays 11, every other Sunday evening 6 to 9.45; one day off each week at 2. State full particulars as to age, salary required, and previous experience, to 90/9, Office of this Paper. ONDON, N .- Smart Junior wanted for quick Store business; out-

LONDON, W.-Wanted, a qualified Manager. Apply, giving full particulars as to age, height, and salary required (iudoors), to Mr. E. J. Green, 69 Churchfield Road, Acton, W.

LONDON.—Junior Assistant (21-25) for Store trade, Photography, and Dispensing; half-heliday weekly; no Sunday duty. State age, height, experience, salary, and enclose references and photograph (returnable), Picken Brothers, Ltd., 31 Woodgrange Road,

LOUGHBOROUGH.—Wanted, immediately, Junior, indoors, for good-class business. Apply, giving fullest particulars, with photo, Martin, Chemist, Loughborough.

MALVERN WELLS.—Assistant, unqualified, about 21 or 22, good Dispenser, for Light Retail and Dispensing, with Wines and Spirits. State usual particulars as regards salary, etc., E. J. Clark, Pharmacist, Malvern Wells.

MATLOCK.—Wanted, at once, unqualified Assistant; outdoors; accustomed to Dispensing and with a knowledge of Photography, Give age, height, salary required, and references, also photograph (returnable), A. E. Davis, The Pharmacy, Dale Crescent, Matlock.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of advertisers who use a number or nom de plume.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

- BEMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.
- BE BRIEF BUT CLEAR-millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

SITUATIONS OPEN (continued).

OSTENDE.—Ach. Do Cock, Pharmacie Centrale, Belgium, requires an Assistant for the summer season; must speak French, Euglish, German, and be thoroughly acquainted with international Pharmacy. Apply, with references, to above address. (Urgeut.)

OXFORD.—Locum wauted for three weeks, beginning or end of August; under 30; qualified, with experience of high-class Dispensing business. Send full particulars, salary required (indoors), to Gunstone, High Street, Oxford.

PENZANCE.—Competent Assistant (outdoors), with knowledge of Photography. Apply, giving full particulars and salary required, stating earliest date when duties could be commenced, to S. Carter, Chemist. Penzance.

PYDE (I.W.).—Gibbs & Gurnell require, immediately, a Junior Assistant for high-class Dispensing and Retail; knowledge of Photography essential. Please state age, height, salary required, and full particulars of experience in first letter.

SOUTH AFRICA.—Qualified Assistant required, at once, for Cape Colony; inust have had first-class experience, good writer, age about 25; total abstainer preferred; second-class passage paid out; 3 years' agreement; salary first year £160, second year £180, and third year £200, with free quarters provided. Address, in first instance, stating full particulars, to "Colonial" (205/25), Office of this Paper.

SOUTH AFRICA.—Qualified Assistants open to accept situations in South Africa should apply to "L.," 14 Lafone Street, Tower Bridge, London, S.E.

TORQUAY.—Qualified Assistant; competent to take charge of Branch business. State age, height, references, experience, salary required, and, if possible, enclose photo, Frederick March, F.R.Met.Soc., 90 Belgrave Road, Torquay.

WARRINGTON.—Assistant for Retail and Wholesale; part time to travel locally; energetic business man; qualification not essential. Apply, with full particulars, Hill & Co., Chemists, Warrington.

WESTCLIFF-ON-SEA.—Qualified Junior; about 25; ontdoors; of gentlemanly address and accustomed to good-class Dispensing and Retail. State full particulars first letter, Body, Chemist, Westcliff-on-Sea.

WEST INDIES.—A qualified Assistant; age about 25; 3 years' agreement; passage paid out and home. Address, "West Indies" (205/22), Office of this Faper.

WEST OF ENGLAND.—Wanted, good Counterman for large business; qualified preferred; must be experienced and have good references. Apply, with full particulars as to salary required, photo, etc., to "B.," e, o Tyrer & Co., Chemical Manufacturers, Stratford, London.

WEST OF ENGLAND.—Qualified Manager for good-class business, with knowledge of Photography. State age, height, reference, experience, salary required (house provided), etc., send photo it possible, 87/28, Office of this Paper.

WEST OF ENGLAND (Country business).—Junior; unqualified; indoors; good knowledge of Photography necessary. Letters, in first instance, to "D.," Gildare, Beauchamp Road, Upper Norwood, S.E.

A LLEN & HANBURYS, LTD., require a qualified Assistant for the Dispensing Counter. Apply, Manager, Plough Court, Lombard Street, E.C.

A SSISTANT wanted; qualified; elderly man not objected to; small Branch; live out; if by letter state age and salary. Apply, 220 Edgware Road, W.

A SSISTANT for Loudon, N.W.; no Sundays. Apply, stating salary (in and out doors), and full particulars, 86/9, Office of this Paper.

A SSISTANT for season; abstainer; Photographic experience necessary. Full particulars to Cadman, Chemist, Sheringham.

A SSISTANT (25-30 years of age) wanted for three months; high-class trade. Send full particulars, with photo, to "Midlands" (86/18), Office of this Paper.

DENTAL.—Wanted, a good, capable Englishman for Dental workshop near London; one able to do Vulcanite and Metal work. Teeth Extraction, and to assist in Surgery when required. Send full particulars of previous experience to "J. W." (205/56), Office of this Paper.

HARRODS require Relief Assistant; need not be qualified if thoroughly competent man. Apply, personally, to Staff Superintendent, 44 Hans Crescent, S.W., before 11 or after 5.

IMPROVER or Junior in Light Retail; close at 2 r.m. on Thursdays; outdoors. State age, height, and salary required, with reference, R. T. Gill, 30 Snow Hill, Shelton, Hanley.

LEWIS & BURROWS have a vacancy for a first-class Dispenser for the West End of London. Apply, enclosing photograph and full particulars, to 146 Holborn Bars, E.C.

CCUM wanted for Light Country Retail, from July 7 to 23 inclusive; comfortable home; hours 8 to 8, close 2 r.m. Thursdays; no night nor Sunday duty. State terms (indoors) and references, to Mountaiu, I harmacist, Bicester, Oxon.

MANAGER, qualified (about 30), energetic, for Cash Retail, Photographic, and Frescribing; must be good Window-dresser and Salesman; £130, with house over shop and commission on net profits. 86/28, Office of this Paper.

DART-TIME Assistant wanted; comfortable home, etc., offered for the above; suitable for Minor or Major students or others. 175 Uxbridge Road, London, W.

PORTER, under 25 years of age, accustomed to a Chemist's business. Apply, "Secretary," Cooper, Son & Co., Ltd., 80 Gloucester Road, South Kensington, S.W.

QUALIFIED Manager for Branch in busy Midland town; must be energetic, a good Salesman, married, and possess undeniable references; liberal salary, with commission; excellent free house and lighting; weekly half-holiday; closed Sunday. Enclose photo, which will be returned, 88/19, Office of this Paper.

QUALIFIED Manager wanted, at once, for London; must be intelligent and enterprising; our living in London preferred. Apply, in first instance, with full particulars of previous engagements, to 85/35, Office of this Paper.

QUALIFIED English Assistant, speaking French and Italian or German. Apply, giving fullest particulars, to 89/30, Office of this Paper.

SMART Junior, unqualified, required for a City business; short hours; no Sunday duty. Apply, giving experience and salary required (outdoors), to C. Horue, 42 Fenchurch Street, E.C.

SMART Improver or Junior wanted (outdoors) with some knowledge of Dispensing; 2 kept. State full particulars, F. T. Sanders, Chemist, Sutton, Surrey.

WANTED, steady, reliable Assistant, used to Agricultural trade; one seeking permanency preferred. Full particulars, salary, etc., photo if possible, 83/31, Office of this Paper.

WANTED, immediately, married qualified man as Manager, county business; one seeking a permaneucy preferred; house rent free. Apply, with full particulars age, salary required, to Watt, Chemist, Burnham-on-Grouch.

WANTED, Junior Assistant; outdoors: work Light Retail and Dispensing. Apply, stating age, height, salary required, when disengaged, photo if possible, also references, to G. Henley, Chemist, Lymc Regis, Dorset.

WANTED, qualified Assistant for good-class business; age about 24 to 26. Apply, giving full particulars and enclosing photo, to J. Bletsoc, Pharmacist, Richmond, Surrey.

WANTED, Junior Assistant, unqualified, from July 15 to end of the month. Please state experience and salary required (outdoors), Roberts, Pharmaccutical Chemist, Saltash.

WANTED, at once, an Assistant (indoors), age about 22, for a Light Retail and Dispensing business. Enclose photo and salary required to "Rhei," c/o Messrs. Ayrtou, Saunders & Co., Liverpool.

WANTED, for old-established Country Retail, Junior Assistant as Dispenser; abstainer; indoor berth. Apply, stating age, height, salary required, when disengaged, giving recent references and full particulars, and enclosing photo, to Fleeming & Son, Pharmaceutical Chemists, II Queen Square, Wolverhampton. Applications not replied to in three days declined.

WANTED, an elderly qualified gentleman to supervise Poisons; comfortable home at the seaside; nominal salary. Apply, 89/17, Office of this Paper.

YOUNG qualified Assistant for good-class Dispensing and Light Retail business; indoors. Kindly give full particulars in first iustauce and state salary required, A. E. Baylis, Great Malvern.

WHOLESALE.

A BROAD.—A leading Drug-honse requires the services of one or two experienced Representatives holding other good agencies for Representation in the East and in South Africa. Apply, 205/25, Office of this Paper.

CAPE TOWN.—Assistant wanted by firm of Wholesale Druggists as Manager of Pill-making Department; capable man; thoroughly experienced in making and coating Pills; 3 years' agreement to be signed; second-class passage paid; salary £14, £15, £16 per month for first, second, and third years respectively. Apply, giving particulars of experience, to "Gelatine" (90/20), Office of this Paper.

A DVERTISING.—Young Pharmacist required in Advertisement Department of large Wholesale firm; careful accurate work with literary tastes or experience. Give full details of age, salary, and positions occupied to "A. P." (206/45), Office of this Paper.

COMMISSION Agents required, calling on Wholesale Grocers or Druggists, to introduce novel carded Penny Line: sells at sight. State ground covered and remuneration expected to "Marosco," 68 Dalton Road, Barrow-in-Furness.

EXPERIENCED man wanted as Manager of Wholesale Drugfull particulars as to age, salary, references, etc., to 83/35, Office of this Paper.

JUNIOR Clerk (age about 18) wanted, at once, in a London Wholesale Druggists'; must have a knowledge of the Druggists' Sundries trade; shorthand an advantage. Apply, "H." (205/15), Office of this Paper.

PACKED Goods and Toilet Artiele Department.—Wanted, competent young lady to superintend about 30 girls, under, of course, a qualified man; one with previous experience preferred. Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

REPRESENTATIVE.—Wanted, by well-known French Perfumery and Speciality house, gentleman with first-class connection amongst Stores and Chemists in West-end of London; undeniable references and guarantee required. State age, salary, and full particulars, in confidence, to 205/61, Office of this Paper.

THREE Representatives required for London, Yorkshire, and South Coast; must have connection and be able to influence business in Packed Goods and Perfumery. Apply, "Novelties" (89/I4), Office of this Paper.

TRAVELLERS wanted, no good unless connection of 3-5 years recent among Chemists, for new firm putting Patent Medicines on market; well advertised and plenty margin to trade; salary, commission, and expenses to men willing to prove their ability to sell; none answered unless stating age, experience, last employers, and must be at liberty at once, or in a few days. Apply, "Medicines" (86/7), Office of this Paper.

WANTED, a young man or woman who can take charge of the Packing of Proprietary goods; also a working Assistant who can take charge of a small Laboratory, making Tinctures, Liquors, etc. Reply in both eases, giving full particulars, to "Chemist" (205/20), Office of this Paper.

 $W^{\rm EST-END}$ qualified Chemist required to develop Drug and Surgical trade; good opening for energetic man. Apply, 85/7, Office of this Paper.

APPRENTICESHIPS.

A WELL-EDUCATED youth wanted as Apprentice in an oldestablished good-class Dispensing business. Ekins & Fisher, St. Albans.

PARTNERSHIPS.

JUNIOR Partnership required in sound Wholesale business by eapable, qualified Chemist; aged 35; 20 years' experience in Retail, home and abroad; capital up to £1,000. Address, in confidence, 87/3, Office of this Paper.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid.

RETAIL.

JUNIOR; 20; tall; vacant July; South preferred. Hearne, 46 Park Street, Grimsby.

 ${
m E^{VENINGS}}$ disengaged after 5 f.M.; good references. "Lysol," 40 Camden Street, N.W.

JUNIOR; 20; 5 years' experience; Dispensing preferred. Pickup, 24 Alfred Street, Blackpool.

IMPROVER; 20; disengaged; North preferred. W. Dalston, Victoria Terrace, Barnard Castle.

MANAGER; 30; qualified; single; experienced; Optics. "M.P.S.," 42 Coram Street, W.C.

L OCUM; 24; excellent experience and references; Photography; unqualified. Mapson, South Parade, Bath.

LOCUM; qualified; 32; disengaged August 9; varied experience.
Permanent address, F. W. Manning, Fairford, Glos.

QUALIFIED; 38; experienced; Manager or Assistant; highest references. "C.," 29 Gladstone Street, Acomb, Yorks.

EXPERIENCED Assistant; Stock, Counter, and Photography tall; 22; disengaged end of July. 85/6, Office of this Paper.

LOCUM Dispenser.—Lady requires post; Hall certificate; experienced; disengaged; Doctor or Institution. 85/18, Office of this Paper.

QUALIFIED, registered Chemist, accustomed to Managing, requires situation; elderly; moderate salary. 85/28, Office of this Paper.

PERMANENCY desired by experienced, inqualified man; 33; tall; 8 years London; single. "Aspirin," 4 Mount Street, Welshpool.

7 YEARS' experience; good Dispensing and Photographic knowledge; 23; unqualified; excellent references. 85/I0, Office of this Paper.

QUALIFIED (young) desires situation as Junior in good-class Dispensing business; provincial town. "Recens" (85/53), Office of this Paper.

STUDENT (aged 21) desires engagement during summer vacation, July, August, whole or part time. Wood, Glenroyd, Marsden, near Huddersfield.

DISPENSER and Bookkeeper to Doctor; experienced; age 40; willing to collect; permanency preferred. Bradburne, Tideswell, near Buxton.

CHEMIST can recommend young man (I8) as Junior; quick, smart Packer; Photography and all-round trade; honest and reliable. 85/37, Office of this Paper.

MANAGER, Locum, or Dispenser; London or suburbs; qualified; thoroughly experienced; Photographic, Prescriber; disengaged. "Aspirin" (85/40), Office of this Paper.

OCUM; qualified; disengaged August; first-rate experience; excellent references; Midlands or North preferred. "Salol," 38 Clarendon Road, Edgbaston, Birmingham.

OCUM; qualified; 1 year in present situation; business now sold; long London and provincial experience; disengaged about June 24. Williams, 27 South Street, Isleworth, W.

A SSISTANT; 29; unqualified; high-class experience in good Dispensing and Retail work; also Store experience; outdoors; exceptional references. Apply, 86/3, Office of this Paper.

IMPROVER (I9) seeks situation; 4 years' apprenticeship; Counter experience; good reference; Manehester district or Cheshire preferred. Address, "H. H. B.," 229 Deane Church Lane, Bolton.

A SSISTANT; 23; good Counterman and Stockkeeper; 7 years' excellent references; abstainer; reliable; disengaged shortly. Write, S. H. Morcom, 42 Chapman Road, Small Heath, Birmingham.

DEVON or CORNWALL.—Advertiser seeks berth in either county; good Dispenser, Prescriber, and Counterman; used to Photographies: disengaged July 4; aged 34; unqualified. Address 86/10, Office of this Paper.

MO Business Chemists only.—Up-to-date Manager or Senior offers his services; modern Store methods; I7 years' valuable experience; agc 33; tall and smart; outdoors; unregistered; 8 years' London stores. 84/14, Office of this Paper.

SITUATIONS WANTED (continued).

AS Dental Assistant and all-round experience. Price, 44 South King Street, Blackpool.

A SSISTANT; 23; uuqualified; West-end experience; London. "Statim" (88/28), Office of this Paper.

OCUM; qualified; good references; Dispensing, Photography, etc. W. Hudson, 148 Portland Street, Lincoln.

OCUM; qualified; reliable; Photography; disengaged July 11. Lemmon, St. Michael's Place, Brightou.

JUNIOR; 20; good Photographic experience; Norfolk preferred. Rumbold, 28 Newmarket Street, Norwich.

MANAGER; tall; qualified; married; thoroughly experienced. "Chemist," 9 Avenue Road, Newport, Salop.

L OCUM TENENS.—Town and country experience; disengaged. Price, Pharmacist, Brynamlwg, Crowborough.

LOCUM; 30; qualified; tall; experienced; reliable; references. Melling, Chemist, Ashton-in-Makerfield, Lanes.

J. PYE, 62 Lynette Avenue, Clapham Common, is open to an engagement until July 11; moderate terms to fill up.

STUDENT-ASSOCIATE; accurate Dispenser; College trained; window; Photo; 30s. Evans, Forster Street, Smethwick.

MANAGER or Locum; 26; good experience; euergetic; outdoors; Midlands preferred. "M.P.S.," 65 Carlton Road, Worksop, Notts.

LOCUM; qualified; 25 years' first-class experience, North and Paper. 87/17, Office of this

MANAGER or Head Assistant; 29; married; qualified; first-class experience; Channel 1slands preferred. 87/61, Office of this Paper.

YOUNG man (21) desires Apprenticeship in a high-class Pharmacy; London preferred. "Secundus," 2 Randolph Road, Maida Vale.

A SSISTANT; unqualified; 26; tall; Dispensing, Photography; excellent references; abstainer; outdoors preferred. Apply, 87/20, Office of this Paper.

ANCASTER or District.—Pharmacist (29) desires permanency as Manager or Assistant; mixed experience; abstainer; single. 87/37, Office of this Paper.

YOUNG lady requires permanent situation as Packer to Chemist in London; small salary; good reference. "E. W.," 20 Grove Terrace, Squires Lane, Finchley.

ONLY one fortnight free, July 4 to 18; qualified Locum; well recommended; any class business; terms moderate. "Reliance," Radford Road, Nottingham.

MANAGER or Assistant; unqualified; age 40; single; abstainer; 13 years' reference; also recent first-class references. "H. G. S.," c/o Watt, Chemist, Southminster.

MANAGER; qualified; married; 20 years' experience, good-class Retail and Dispensing; permanency; excellent references. "Philip," 17 Castelnau Gardens, Barnes, S.W.

JUNIOR; age 20; height 5 ft. 6½ in.; 5 years' experience; Dispensing; good references; Manchester district preferred. Walkden, 38 Bury Street, Radcliffe, Manchester.

A T liberty for any period July, August, September; competent Assistant; 29; good Dispenser, salesman; excellent references; abstaincr. "Photo," 56 Carisbrookc Road, St. Leonards, Sussex.

ANAGER; 39; married; qualified; West-End, Continental, and country experience; well up in modern methods; Photo and Optical; disengaged July 18. "Advertiser," 22 Hampton Place, Brighton.

DENTISTRY. — Registered man, long experience, will visit Chemists and undertake all Artificial work within 30 miles London: salary or will share fees. "Dentist," 72 Marylands Road, Maida Vale.

PHARMACIST (30), abstainer, married, Scotch, desires good Managership; first-class experience and testimonials; undeniable references to character and capabilities; accustomed to responsibility; Photography. 88/I7, Office of this Paper.

HOSPITAL Locum; qualified. Irving, 32 Valuay Street, Tooting, London.

OCUM; qualified; 36; disengaged July 4; steady, reliable man. Powell, Long Buckby, Rugby.

JUNIOR (20) requires situation; 5 years' experience; height 5 ft. 10 in. 89/19, Office of this Paper.

QUALIFIED (27), Branch Manager or Assistant, desires permanency. 89/35, Office of this Paper.

SATURDAY evenings; Retail or Dispensing; 30; qualified. "Argon," 60 St. Mary's Road, Peckham.

L OCUM or Branch Manager; good experience; middle-aged. "Locum," 125 Falcon Road, Battersea.

DISENGAGED; unqualified; several years' experience. R. M. Lelean, 2 Rockville, Hautville, Guernsey.

L OCUM or permanency; qualified; middle-aged; abstainer. "Phenacetin," 10 Raby Street, Darlington.

RELIABLE, competent Locum or Relief; experienced. "Pharmacist," 33 Foskett Road, Hurlingham, S.W.

OUTDOORS; competent Assistant; unqualified; disengaged. "Lancs," 129 Russell Avenue, Wood Green, N.

LOCUM; 30 years' wide experience; qualified; disengaged. Smith, 5 Hannah Street, Crowcroft Park, Manchester.

MANAGER; 29; married; good experience; Photography, Optics; Yorkshire preferred. 87/16, Office of this Paper.

UNQUALIFIED; outdoors; experienced Assistant; Photography, Optics, Pretlove, 342 High Street, Stratford, E.

LOCUM; qualified; 26; abstainer; Extractor, Photographie; disengaged. "Ferrum," 45 Crawford Avenue, Liverpool.

UNQUALIFIED; outdoors; experienced Assistant: 37; married; disengaged. "Statim" (89/39), Office of this Paper.

MANAGER, Senior, or Locum; qualified; 45; disengaged.

OCUM; fully qualified; lady; Hospital and Surgery experience; testimonials. "Pharmacist," 86 Balham Park Road, S.W.

MANAGER; qualified; expert Fhotographer; first-class seaside experience; 29; 5 ft. 9 in.; abstainer. 86/63, Office of this Paper.

A SSISTANT or Locum; age 28; experienced; good Counterman, etc.; references; at liberty. "Salol," 39 Ashburnham Road,

A SSISTANT; 39; experienced, capable; Dispenser; references; disengaged; outdoors; single. Dale, 80 St. Paul's Road, Canonbury, N.

MANAGER, Locum, Assistant; qualified; disengaged; middleaged; fluent French; experienced. 47 St. Thomas Road, South

OCUM or permanency; qualified; exceptional experience; good references; moderate terms. "L.," 4 Berkley Road, Regent's

Dispenser (Lady) requires long Locum or permanency; Doctor or Institution; good testimonials and experience. Write, 87/5, Office of this Paper.

MANAGER, Assistant, or Locumt; thoroughly competent, allround man; abstainer; excellent references. "W. E.". 84 Mitcham Road, S.W.

OCUM, qualified, excellent references, booking summer holiday dates; town or country; disengaged. Caius, 21a Castletown Road, West Kensington.

LOCUM; 26; IO years' first-class experience, all branches; highest references; qualified; disengaged July I6 to 31. Garry, 18 Milkwood Road, Herne Hill, S.E.

QUALIFIED; reliable; disengaged; large, all-round experience; single; good Dispenser, Prescriber, Extractor, Counterman, etc. "Manager," 37 George Street, N.W.

QUALIFIED Chemist (24), tall, with good experience, desires Part-time, Night, or Locum work in London while looking out for business. 86/72, Office of this Paper. OCUM; qualified; 28; 5 ft. 10 in.; experienced all branches, town and country; disengaged June 27 to July 4 and from July 25; moderate terms. 89/9, Office of this Paper.

LOCUM or permanency, home or abroad, required by qualified Chemist; all-round experience; age 38 years. "Rhei," c/o Mr. Sellars, 168 Church Street, Blackpool.

A SSISTANT; unqualified; married; age 30; Dispensing, Photographic, and window-dressing. etc.; good Counter hand. "Aspirin," 85 Fotheringham Road, Enfield, N.

MANAGER or Assistant; unqualified; age 42; married; life abstainer; 28 years' sound experience; active and not afraid of work. Roberts, 110 Gelligaer Street, Cathays, Cardiff.

OCUM.—Capable Manager and varied experience, London and country; first-class references; age 32; disengaged August.
Pharmacist," 34a Garthorne Road, Forest Hill, London.

RELIABLE Assistant; married, no family; Prescriber, Extractor, Photographer, Disponser, Stationer, Tobacconist; experieuced every class business; highest character. Powell, 20 Muir Road, Maidstone.

IMPROVER (20), tall, passed Preliminary, 3 years' Dispensing experience with Medical man, requires situation with Chemist; indoors; excellent testimonials. Apply, stating particulars of salary, etc., Evans, Salanama, Pentrefelin, Portmadoc.

LONDON, N. — Assistant; age 34; unqualified, with good all-round experience; 7 years' and 5 years' West-End references; also suburban; Locum or permanency; disengaged July 2. "H. J.," Seymour Villas, Fortis Green Road, East Finehley, N.

A DVERTISER (27), unqualified, seeks situation as Branch Manager or Assistant; excellent experience; references; per-maneucy; would accept situation with view to partnership; 6 years last situation; good Preseriber. "Validol," Ivy House, Broadway,

WHOLESALE.

TRAVELLER; 25 years' experience; excellent record; live connection; moderate terms. 89/32, Office of this Paper.

WHOLESALE; 13 years' experience, Packed Goods, Soaps, Toilets, and Perfumery. "Savon" (90/21), Office of this Paper.

PHARMACIST (29) wishes to be Representative, Drugs, Sundries, or could push and demonstrate Photo Goods. 86/36, Office of this Paper.

CLERK (25), provincial, smart appearance, proficient invoicing, bookkeeper by examination, 8 years' experience, desires change, 90/23, Office of this Paper.

TRAVELLER, 14 years last situation, is open for re-eugagement; first-class personal connection; smart appearance; young; good address. 87/22, Office of this Paper.

CENTLEMAN with large connection in North and Scotland wishes an additional commission not clashing with Dentifrices. Chester, 1 Lorne Road, Fallowfield, Manchester.

A DVERTISER (aged 21), energetic, reliable, seeks permanency; 7 years' experience, Assistant, Stockkeeper, and Despatch Clerk. A. White, 2 Lisson Cottages, Lisson Grove, N.W.

A DVERTISER, well known Liverpool, Cheshire, North Wales, etc., A personal connection, as Representative first-class firm Drug, Sundries. "Statim," 52 Belmont Road, Liverpool.

REPRESENTATIVE, qualified (aged 35), 10 years' experience of the road, with first-class connection on the South Coast and West of England, is open to engagement. 86/15, Office of this Paper.

REPRESENTATIVE, extensive connection Chemists, Grocers, Ironmongers, London, Home Counties, desires Side-line, Proprietary Articles or Tollet Soap house preferred. 90/19, Office of

TRAVBLLER with genuine and long-established connection, North and Scotland, is open to re-engagement; good refer-ences; well experienced; Sundries, Perfumery, etc. "Northern" (87/33), Office of this Paper.

OUTH COAST. — Smart Traveller, good Salesman, wishes to arrange with a reliable firm working goods selling to Chemists and Fancy shops, willing to share with another firm expenses and pay good commission; highest references. Address, "P. W.," 75 New Cross Road, S.E.

A LADY well known in the trade, and of good business abilities, and who has been very successful in travelling among Chemists, would be pleased to hear of a firm in the high-class Perfumery or Drug trades to self, represent, or travel and push Specialities; salary and commission. 86/11, Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackhath, S.E. Telephone 81 Lee Green.

Shures for Sale (free of commission, subject).—100 Angostura 61
6 per cent. Preference, 18s. 6d.; 20 Evans Lescher Preference, 103s. 9d.; 10 A. W. Gamage 620 4½ per cent. Debentures, £19 10s.; 135 Lewis & Burrows Ordinary, 2s. 6d., 165 6 per cent. Preference, 10s. 6d.; 100 Daily Mirror" £17 per cent. Ordinary, 2s. 3d.; 100 Wright Layman Preference, 21s. 6d.; 20 Henry Lamplough £5 shares, £3 10s. paid, 28s. p.d.

WANTED (subject).—150 Allen & Hanbury "B" Preference, 2s. 9d.; 100 Camwal Preference, 4s. 9d., 5 £50 Debentures, 34; 20 Evans Lescher Preference, £5 1s. 3d.; 100 Southall Bros. & Barclay Ordinary, 32s. 9d.; 500 A. J. White Ordinary, 2s. x.d.; 100 Preference, 10s. 6d. cd.; 120 Virol £1 Ordinary, 10s. 43d. c.d.

List of shares for sale and wanted sent free on application. Bankers, Londer County and Westminster. Established 1898.

CHEMISTS' SHOP-FITTINGS (SECOND-HAND). — Ranges mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens, connters with gla. s-case fronts, wall-cases, bent-front and flat-top counter-cases, counter-desks, tooth-brush cases, complete shop-ronnds, etc.; every requisite for chemists; extensive stock to select from at extremely low prices; practical men sent to all parts; illustrated catalogues and estimates free. MATTHEWS, CHEMISTS' FITTER, 14 and 16 MANCHESTER STREET, LIVERPOOL.

WE HAVE WHAT YOU REQUIRE, Drug Fittings, Counters, Wall-cases, Dispensing-screens, Perfume-cases, etc., in almost all sizes; second-hand; condition first-class; prices reasonable. Write for sketches and details giving approximate sizes, or call and inspect RUDDUCK & CO., 262 OLD STREET, E.C.

CHEMISTS' BARGAINS.—Drug-fittings, Dispensing-screens, Wall-cases, Perfuue-cases and Desks, Centre Cases, Counter-cases, Counters, Drawers, Window Enclosures, Glass Shelves, etc., Al Shopfittings, second-hand; lowest prices; can't be beaten; send for estimate, it will pay you; 30 years' practical experience. George Cook, The Working Shepfitter, 8a Cross Street, Islington, London.

FITTINGS.—Second-hand Drug Fitting, Minor Poison-cupboard, Bottle-shelving, and Cornice, 8-ft. Wall-case, 6-ft. Dispensing-screen (mirror centre), 10-ft. glass-fronted Counter, Perfumery-case and desk, mahogany and plate-glass Counter-case, the lot £48 10s.; also 2 second-hand mahogany plate-glass Silent Salesmen, 6 ft. by 2 by 2 ft., £18 10s.; bargains. H. Mills, Chemists' Complete Shophitter and Shop-front Specialist, estimates free, Steam Works, 163-5 Old Street, London, E.C.

WALL-CASE, 8 ft. long, mahogany, 8 ft. high, second-hand, £9; Counter-case, 4 ft. long, similar to Maw's 2744 in design, second-hand, £7 10s.; handsome second-hand Wall-case, 8 ft. long by 7 ft. 6 in. high, mahogany and plate glass, plate-glass mirror back, and plate-glass shelves. £12 10s.; second-hand Centre-case, saddle-shape (or can be used as wall-case), 8 ft. long by 4 ft. wide, on handsome stand, £15; all great bargains. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

THE Proprietors of British Patents for the Manufacture of Surgical Bandages are desirous of entering into arrangements with interested parties with a view of Maunfacturing these Bandages in Great Britain. Apply to A. Siebert & Co., 6 Fann Street,

TO HELP THE SMALL CHEMIST.

By continued request from those whose gross turnover is under By continued request from those whose gross turnover is under £500 per annum I have decided to accept from them a reduced fee, one-third less than the fee in my free booklet. Chemists doing less than £750 gross turnover, one-sixth reduction. Over £750 per annum turnover, fee as usual. I take your word for the takings, and as regards printing credit, for those who need it, it can be specially extended or paid by easy instalments. THIS DOES AWAY WITH THE LAST EXCUSE for not using my certain profit-making system. WRITE.

BernaroSlack, 9 King St. Jel. 80 581. Wolverhampton

בור בינור לו היבינור היבינור היבינור בינור



DUDLEY & CO., Ticket Writers & Printers, Holloway, London,

The New Fast Edge. CREPE VELPEAU BANDAGES



THE ONLY ORIGINAL Introduced by W. GIMBER in 1892.

AN ELASTIC BANDAGE.
Containing no Indiarubber.
Superseding Elastic Stockings,
Webs, Baodages, and at balf the
cost. Three sizes—about 2. 23.
and 3½ inches wide.

CREPE VELPEAU ABDOMINAL BINDERS.

Useful after many Abdominal Operations, and for ladies after confinements. Two sizes—8 and 11 in. wide.

CAUTION.—Beware of fraudulent and useless imitations, and reject all Bandages not bearing the above Trade Marks on the Wrappers. Wholesale of the original Importers and Introducers.

W. CIMBER & SON, Surgical Bandage and Instrument Makers,

44 QUEEN'S ROAD, PECKHAM, LONDON, S.E. And of all Wholesale Druggists, Chemists, Surgical-instrument Makers, &c. Telephone 2401 Hop. Descriptive Circular and Price List on application.

A NEW TOILET SPECIALITY.

Is another of my ideas. A Lady who has used it says, "I shall not use anything else in the future. I have never used anything which has given such satisfaction in such a short time." There will be a big demand for this speciality, (no Pharmacist at present puts it up). It costs under 3d. per lb., retails from 2s. 8d. to 5s. 4d. per lb., according to class of trade done. This is included in my business-pulling system, Booklet explaining the same, sent post free on application to Pharmacists only macists only

BILLYARD ALLISON, Pharmacist & Business Specialist, RETFORD.

DISPENSING BOTTLES & PHIALS

LISAACS & CO.'S REDUCED PRICES

M 106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W. The New Shape, Oval Fronted Bottles, 6 ounce size, 8.6 per gross A Sample Free on Application.

Will you please try our FIRST QUALITY BOTTLES, Round Edges, Plain or Graduated, Quinine Tinted.

3 and 4 6 and 8 12 15 ounce.

1 is 9/- 10/- 15/- 20/- per gross.

Six gross assorted or otherwise sent carriage paid.

PANEL BOTTLES (New Series), Green or Blue Glass.

Six gross and upwards, assorted or otherwise, sent carriage paid to any

address in the United Kingdom. Smaller quantities not carriage pald.

Established 120 years. Bankers: London County and Westminster Bank.

EXCHANGE COLUMN.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6d.

FOR DISPOSAL.

APPARATUS.

ANALYTICAL balance, by Griffin & Sons, Kingsway, agate points throughout, weights 50-.001 grns.; almost unused; complete with case £3. WALKER, 48 Sloane Street.

BOOKS AND PERIODICALS.

FOR sale, set first examination books. Particulars and price to "E. M.," 43 Pleydell Avenue, Upper Norwood, S.E.
"B.P" ('98), 7s. 6d.; "Art of Dispensing," 1s. 6d.; Ince's "Latin Grammar," 1s. 6d.; "Guide to Prelim.," 1s. Stevens, 35 Queen's

Walk, Nottingham.

OPTICAL AND PHOTOGRAPHIC.

TEST-CASE and about 6 doz. frames, lenses, etc.; particulars free. 90/14, Office of this Paper.

CAMERA, No. 4 folding pocket Kodak, with case; takes pictures 5 in. hy 4 in.; £3 or offer. Apply, A. Funge, 38 Pulross Road, Stockwell, S.W.

GOOD students' microscope, a bargain, cost £3 10s., in lock-up case, 2 objectives, 2 eyepieces, accessories; excellent condition; £2 58.; approval. 88/9, Office of this Paper.

PROPRIETARY ARTICLES.

RICHARDS' sheep-dipping powder; 4 doz., unopened; 35s.; or useful

exchange. GIBBS, Upton-on-Severn. OVERSTOCKED.—3 doz. Frog-in-throat 7½d. at 48., ½ doz. 18. 1½d. at 7s. 6d.; 2 doz. Keene's one-day cold-cure 7½d. at 3s.; 2 doz. 1s. orangeine powders at 5s. 3d.; ½ doz. 2s. 6d. orangeine powders at 10s. 6d.; 1 doz. 4s. 6d. orangeine powders at 18s.; 1 doz. Lucas magical healer (vet.) at 16s.; 2 doz. Armour's soluble heef at 9s.; 1 doz. 7½d. herl at 4s.; ½ doz. 1s. herl at 5s. 6d.; references or cash with order; £1 worth carriage paid. 38 King Street, Maidenhead.

SHARES.

SHARES for Sale. See p. xli.

SHOP FITTINGS.

FOUR 8-gal. pear-shaped carboys, cut-glass stoppers; condition as new, with stands and tramways; low offer to clear; room wanted. SLACK, 260 Luton Road, Chatham.

STILES' veined marble soda-fountain, in splendid condition, with 4 syrup compartments and all accessories and syrups; cost £26; net cash £12 12s. standing; also 2 specie-jars on stands, hy Maw, cost £7 10s.; price £4 standing. 38 King Street, Maidenhead. Tel. 466.

MISCELLANEOUS.

WANTED, offers for "Enterprise" tincture-press; new, cost guinea; or exchange for field-glasses. Ashbr, Stainland. SET of optical lectures, 7s. 6d., including "How to Test"; also

several 4-in. smart blocks for newspaper advertisements, very effective, 3s. each. Particulars from "D. Q.," 7 West Bank Road, Liverpool.

1,000 SHOP-ROUNDS, 2 bell-metal mortars, 2 5-grain pillmachines, set gramme weights in box, 36 pink dome-cover oint-ment-jars, Squire's, Martindale's "Vet. Counter Practice," Remington "Practice," B.P. '85; what offers? Enwarns, 192 Cowbridge Road, Cardiff.

WATSON'S Edinburgh student's microscope, stand "F," 2, 1 ohjectives, B and D eyepieces, Scap-Abbé condenser, hull's-eye stage condenser, ctc., ctc., brand new; also turntable, Minor books, Codex, "P. J. F.," Unna's "Skin Diseases," White and Martin's "Vencreal Diseases," Kerner's "Botany" (6 vols., with Martins 'teneral Dallinger's "Microscope" (2 vols.); quite new; B.F. (1864); quantity stock labels, etc. "Pharmacist," 49 Salisbury Place, Bishop Auckland.

WANTED.

PLATINUM, crucibles, wire, foil; full value remitted. Rowsell, 11 Crebor Street, Dulwich.

AN artificial leg for window for showing elastic stocking, etc. SMITH, Chemist, Farcham. SKELTON'S "Science and Practice of Mcdicine," latest edition.

MOFFATT, Chemist, Low Fell.
FEW Idris "A" Preference, 4s. per share. Chambers, Pharmacist,

19 Burnham Street, Nottingham.

ABOUT 12 cases artificial teeth, partial and complete, for windowshow; approval. Smith, Chemist, Farcham. "CHEMIST AND DRUGGIST," copies of for 1880 and 1881. State

price, SHARP, 49 Edward Street, Brighton.

MICROSCOPE, second-hand, good condition. Particulars and price to A. H. SMITH, Roden Avenue, Kidderminster. HAIR-DYES, face-powders, safety-razors; saleable lines. Price and

particulars, Milne, 88 Rose Street, Edinburgh.

"PHARMACEUTICAL Journal Formulary, 1907, good condition.
COUNTY CHEMICAL Co., Ltd., Chemico Works, Birmingham.

FORCEPS, vulcaniser, flasks, and all dental appliances. "H. C.," e/o A. Crossley, Pharmacist, 73 Shaw Heath, Stockport.

COPY of Philip Josephs & Sons' catalogue of modern shops and

shop-fittings, issued in March, 1902. 206/31, Office of this Paper. OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, Waterloo,

Liverpool.

Fairchild Scholarship and Prizes.

THE following are the questions given at the examination held simultaneously at Cardiff, Dublin, Edinburgh, London, and Manchester on Wednesday, June 22:

ELEMENTARY BUSINESS KNOWLEDGE,

(Time allowed-One hour.)

(Time allowed—One hour.)

1. Write a letter to a enstomer complaining of a long overdue account, and suggesting that he shall pay it by instalments.

2. Write an essay not exceeding 300 words on one of the following subjects: (1) The P.A.T.A. (2) Prescribing chemists and dispensing doctors. (3) Competition in the drug-trade. (4) Bookkeeping for chemists. (5) Summer proprietaries for chemists. (6) The modern drug-store and the pharmacist. (7) Side-lines in pharmacy.

3. (1) Draw up an advertisement by a chemist's assistant who wants a situation and (2) write an application for a vacancy for a junior assistant.

4. A chemist buys 50 doz. of a certain proprietary line at 8s. a doz. He sells 40 doz. at 50 per cent. profit and 4 doz. at 12½ per cent. profit—breakages account for ½ doz. more and he sells the rest for half what they cost him. If his working expenses are allowed for at the rate of 10 per cent. on the sale price, calculate the net profit on his outlay.

5. A lady customer comes into the shop and asks for enough prussic acid to kill her pet dog. Tell what you would do: (a) If your employer were on the premises; (b) if he were out and no qualified person were in the shop.

PRACTICAL PHARMACY AND PRESCRIPTION-READING.

PRACTICAL PHARMACY AND PRESCRIPTION-READING. (Time allowed—One hour and a half.)

1. What are the properties of a good suppository basis? Name the bases commonly used, stating which of these are official, and state how you would make suppositories each containing ext. hamamel.

how you would make supported.

11d. mv.

2. Convert the following into their metric or imperial equivalents as the case requires: 96 minims, 2.85 c.c., 2 decigrammes, 0.4 dekagrammes, 3.7 grains, 0.39 lifter, 10 cm., ½ grain.

3. Expand the following into full Latin, translate the directions into English, and make any remarks you think necessary in regard to compounding and dispossing the mixtures:

(a) R Pot. brom., gr. x.
Pot. nit., gr. v.
Liq. morph. hyd., mxxx.
Liq. atrop. sulph., miii.
Tr. cannab. ind., miv.
Aq. chlorof., ad 5ss., mitte 5vi. Signa: 3ss. 4ta quaqua hora ex aq. 3ss.

(b) R Liq. strych., mlxxx. Tr. card. co., 5ii. Sp. ammon. arom., 5iii.

Fiat mist., cujus cap. æger drachm. du. ter in die post cib. et hora

somni.

4. Give the official process for making pil. ferri, explaining what happens in compounding the mass, why dried salts are used, and how the pills should be finished.

5. Write not more than 200 words about spt. ammoniæ aromaticus, its preparation and propertics.

ELEMENTARY CHEMISTRY

ELEMENTARY CHEMISTRY.

(Time allowed—One hour and a half.)

1. What are the actions of (a) concentrated hydrochloric acid, (b) concentrated sulphuric acid, and (c) dilute sulphuric acid on zinc, copper, and mercury respectively?

2. Calculate the volume (in litres) of carbon dioxide produced from 20 grammes of calcium carbonate on the addition of the equivalent of hydrochloric acid (CaCO,=100).

3. What are (a) limestone, (b) quicklime, (c) slaked lime, and (d) prepared chalk? What do you understand by the term limeburning, and what happens during the process?

4. Explain the following expressions, giving illustrations: Chemical affinity, compound radical, qualitative analysis, molecular formula, atomic weight, dibasic acid, neutralisation, equation.

5. Describe what takes place when the following substances are thrown into a coke fire: (a) Sodium bicarbonate, (b) potassium nitrate, (c) zinc oxide, and (d) arsenious oxide.

6. How would you prepare acetate of lead, starting with metallic lead?

ELEMENTARY MATERIA MEDICA.

ELEMENTARY MATERIA MEDICA.

(Time allowed—One hour.)

1. Give the Latin and English names under which parts of or products from the following are given in the British Pharmacopoeia:
(1) Rhammus Purshianus. (2) Barosma betulina. (3) Apis mellifica.
(4) Claviceps purpurea. (5) Ipomora Purga. (6) Hevea brasiliensis.
(7) Citrulius Coleynthis. (8) Papaver somniferum. (9) Sus Scrofa.
(10) Citrus Aurantium. Also write not more than ten lines about the parts or products of (1), (2), and (3).

2. Compare and contrast the following: Anise, dill, conium, and caraway. State what they are, and explain the characteristics of the ridges.

caraway. State what they are, and explain the characteristics of the ridges.

3. Give sources, N.O., and habitats of the following: (1) Kino, (2) eucalyptus gum, (3) catechu, and (4) gamboge. State how yon would distinguish between the first two.

4. Distinguish between: Erythroxylon Coca and Theobroma Cacao; Cassia acutifolia, C. angustifolia, and C. fistula; Aueps and adeps lane; Cascarilla and cascara; Cocenhas indica, cannabis indica, and cocens; Pix burgundica and pix liquida; Rosa canina, R. gallica, R. damascena, and R. centifolia.

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for $\pounds^{(1)}$) and lodged with Mr. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

The figures in parentheses refer to the classes in which the marks are desired.

(From the "Trade-marks Journal," June 8, 1910.)

"Mrs. Burton's Hair-Cream," and picture of aeroplane; for a hair-preparation (48). By J. Burton, Main Street, Owaka, Otago, N.Z. 317,250.
"Duanta" for perfumery, etc. (48). By W. F. Charles, Woodgate, Loughborough. 322,042.

- "Bulbaria"; for a hair-preparation (48). By F. A. L. Sautriau, 41 Avenue Alphand, St. Mandé, France.
- "LUNE DE MIEL": for perfumery, etc. (48). By Crown Perfumery Co., Sidney Road, Homerton, London, N.E. 322,868.
- "LEPRACAUN": for all goods (48). By J. Barrington & Sons, Ltd., 202 Great Britain Street, Dublin. 322,988.

(From the "Trade-marks Journal," June 15, 1910.)

- "PLATINOL": for photographic chemicals, plates, and films (1). By S. H. Plattin, 10 Derby Road, Nottingham. (1). By 322.193.
- "Allenger, Newcastle Chemical-works Co., Ltd."; for chemicals (1) and for bleaching-powder (47). By United Alkali Co., Ltd., 30 James Street, Liverpool. 323,311,
- "Bank of Radium," and "Radium Bank," and label device with tube of radium; for medicinal radio-active sub-stances (3). By Banque du Radium, 45 Rue Boissy d'Anglais, Paris. 321,702.

- "MUIDAR"; for medicated preparations (3). By Mu-Dar, Ltd., 65a Cannon Street, Loadon, E.C. 321,772.
 "Crabb's Fervings," and label device of crab: for a medicated wine (3). By W. J. Crabb & Son, 24 New Road, Data Control of the cont cated wine (3). B Brighton. 321,890.
- "George Andrews Pilule Rubri"; for pills (3). By G. Andrews, 242 Mile End Road, London, E. 322,311.
 - Halza"; for medicinal chemicals (3). By D. W. Nicolson, 3 Duke Street, Leith. 322,265.
- RITZOL"; for medicated toilet-preparations (3). By Bichara De Paris (England), Ltd., 170 Piccadilly, London, W. 322,622.

- W. 522,622.

 "Antasiachol": for medicine (3). By Steinhoff, Sons & Muir, Ltd., 6 Trinity Square, London, E.C. 322,894.

 "Phenalette": for medicinal chemicals (3). By T. Stephenson, 137 George Street, Edinburgh. 323,129.

 "John's Pills and Ointment for Piles," and label device of coal-truck; for medicines (3). By D. John, 12 Chapel Street, Troedyrhiw, near Merthyr Tydvil. 323,158.

 "Clearnous": for medicinel services (3). By D. John, 12 Chapel Street, Troedyrhiw, near Merthyr Tydvil. 323,159.

"CASCAROMAT"; for medicinal chemicals (3). By Evans Sons

Lescher & Webb, Ltd., Liverpool. 323,165.

FENEDIUM "; for medicine (3). By R. A. E. Payne, 20 Vernon Road, Edgbaston, Birmingham. 323,802.

- "Necozymos"; for medicinal chemical powders, tablets, and solutions (3). By Mary Ransome, The Croft, Bowdon, Altrincham. 323,831.

 "Black Knicht" for marking-ink (39). By H. C. Brierley, 2 and 4 Boothtown Road, Halifax. 321,429.
- "Kanox," and label device: for dog-food (42). "Nychick," and device of chicken with horned head: for chicken and poultry food (42). By W. H. Grimshaw, 132 Darwen Street, Blackburn. 321,352, 321,391.

- "ZIM": for aërated waters (44). By W. Leitch & Co., Ltd., 11 Greenside Lane, Edinburgh. 322,979.
 "PRIMAX": for soaps in (47) and (48). By New Hydrolcine Co., Ltd., Castle Soap-works, Ashby-de-la-Zouch. 322,0516. Co., Ltd 322,895/6.
- "BIPLANE": for candles, night-lights, and soap (47). By Palmer & Co., Ltd., Warton Road, Stratford, Essex.
- "BOUQUET DU CHEIK," and label device; for perfumery, etc.
 (48) By Gustav Boehm. Sprendlinger Landstrasse,
 Offenbach-on-Main. 316.822.

 "MINSTER TOHET-SOAP," and label device with picture of
 York Minster; for perfumed soap (48). By Minster Soap
 Co., Ltd., 71 Eastcheap, London, E.C. 322,159.

Coming Events.

This Section of the "C. & D." is reserved for advance notices of meetings or other events which are sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Wednesday, June 29.

London Chemists' Association, 17 Bloomsbury Square, W.C., at 3 P.M. Annual general meeting and election of officers. Association of Women Pharmacists, Passmore Edwards'
Settlement, Tavistock Place, London, W.C., at 8 P.M. Annual business meeting.

Midland Pharmaceutical Association. Summer excursion to Train leaves Birmingham (Snow Hill) at Holt Fleet. Train leaves Birmingham (Snow Hill) at 12.35 p.m. for Stourport, from whence the party will be conveyed to Holt by steamboat. Tea will be served at 5 p.m. At 7.15 the journey will be resumed to Worcester, where the return train to Birmingham will be taken at 9.15. Tickets, lady's or gentleman's, 6s. 6d. each inclusive, from Mr. H. Buckingham, 279a Witton Road, Aston Holt Fleet

Cardiff Pharmaceutical Association. First picnic of the season to Cowbridge. Brake leaves the Angel Hotel at 2.15 p.M. (fare 2s. 6d.). Tea will be taken at the Duke of Wellington Hotel, Cowbridge, at 5 p.M. (tickets 1s. 9d.). Tickets from Mr. E. Poole, Hon. Secretary, 71 Broadway,

Thursday, June 30.

Great Yarmouth Pharmaccutical Association. Summer outing to Coltishall.

Nottingham Pharmaccutical Association. Summer outing tingham Frankectered Association. Saline Stating to Haddon Hall, Lathkill Dale, and Alport. Train leaves Midland station at 1.25 p.m. Meat tea at Alport at 5.30 p.m. Tickets (4s. 6d. each) from Mr. S. H. Plattin, 10 Derby Road, Nottingham.

SOCIETY OF CHEMICAL INDUSTRY .- The annual general meeting of the Society will be held in the Natural Philosophy Lecture Theatre of the Technical College, Glasgow, on July 6.

Lecture Theatre of the Technical College, Glasgow, on July 6.

The National Association of Medical Herbalists of Great Britain will hold its annual meeting at the King's Head Hotel, Change Alley, Sheffield, on July 20 and 21, under the presidency of Mr. J. W. Scurrah, Bradford.

The combined annual picnic of the Newcastle-on-Tyne and Sunderland Pharmacists' Associations will be held on July 6. Further particulars from Mr. W. Pescod; Hon. Sccretary, 60 Osborne Avenue, Newcastle-on-Tyne.

The British Pharmaceutical Conference will meet at Cambridge at the end of July. A reception will be held on the evening of July 25, and sessions of the Conference will meet on the mornings of July 26, 27, and 28, the afternoons and evenings being devoted to social functions. On the afternoon of July 26 a meeting will be held of the Federation of Local Pharmaeeutical Associations. The full programme was given in the C. & D., April 23, p. 600. The Hon. Local Secretary, from whom tickets can be obtained, is Mr. Arthur Deck, 9 King's Parade, Cambridge.

College Notes.

BATH COLLEGE OF FHARMACY.—The students of this College selected June 15 for their customary summer picnic, and on that day, under ideal weather conditions, several boatloads of pleasure-seekers left the College boating staithe and wended their way along the beautiful Avon to Warleigh. Here tea was provided in truly rural style, and the usual games and jollities indulged in. The outing proved to be thoroughly enjoyable.

NORTHERN COLLEGE OF PHARMACY.—The students of this Manchester College visited Grindleford on June 17 for a botanical ramble, under the guidance of Mr. Clayton, one of botanical ramble, under the guidance of Mr. Clayton, one of the principals. During a most profitable and successful after-noon spent in the woods many excellent specimens were ob-tained, embracing many species included in the Minor syllabus. The party were entertained to a substantial tea by the principals, and Mr. J. A. Collins, in an appropriate speech, expressed the students' sentiments in a hearty vote of thanks to the principals, to which Mr. Clayton duly responded. Cricket was indulged in after tea, and all commenced on the return journey in high good humour. Perfect weather conditions attended the outing.

SCHOOL OF PHARMACY.—Showery weather was responsible for a moderate attendance at the annual distribution of prizes awarded during the session at the Pharmaceutical Society's School, 17 Bloomsbury Square, London, W.C., on June 23. The President (Mr. J. F. Harrington) took the

chair ten minutes after the specified time, and stated that letters of apology for absence had been received from Dr. Att-field, Professor W. Palmer Wynne, Sir Edward Thorpe, Mr. Jennings, Sir Arthur and Lady Church. The Dean (Professor H. G. Greenish), in his report, said he was glad to say that the session had been a most satisfactory one, every available bench being taken before its commencement. The students bench being taken before its commencement.

numbered seventy-nine, against seventy-eight in the previous
the session of 1907-8. The first number represented the maximum capacity of the School under the present conditions. A further satisfactory feature was the increasing number of students taking the complete was the increasing number of students taking the complete course, being sixty-five during the present session, against fifty-eight in the previous year. In the advanced course, Mr. W. R. Pratt had carried off the majority of the prizes, but in the elementary course the awards were more evenly divided. An addition had been made to the list of prizes, the C. J. Hewlett exhibition being awarded for the first time to Miss Dorothy Jessie Bartlett, who distinguished herself by her ability and steady work during the session. For the third year in succession students of the school had taken off third year in succession students of the school had taken off all the Council prizes. A list of post-graduate successes was also given. The School had suffered in common with the rest of the pharmaceutical world by the death of Mr. Michael who had devoted much time to its development Carteighe who had devoted much time to its development and equipment, and who was also mainly instrumental in establishing the research laboratories connected with the School. A further loss was sustained by the resignation from the Council of Mr. Walter Hills. The Dean, in concluding, said the prospect of the future of the School is equally as bright as the present. The Dean then called upon the prizewinners, whose names have already been recorded in these columns (C. & D., April 9, p. 547, and June 4, p. 858). The President, in handing over the awards, made to each recipient a few congratulatory remarks. Rounds of appleause were also accorded to each prize-winner, as he or she stepped forward. accorded to each prize-winner, as he or she stepped forward, and the somewhat long intervals occupied in extricating from the pile the correct certificate were filled in like manner. In distributing the Hanbury prizes, the President mentioned that the two copies of the "Pharmacographia" then awarded were the last in print, and it was not likely that there awarded were the last in print, and it was not likely that there would be any future edition. Before congratulating Miss Bartlett upon being awarded the C. J. Hewlett exhibition, the President said Mr. J. C. Hewlett had telegraphed regretting his inability to be present. The President, in giving a word of encouragement to the scholars who had not won prizes, also referred to the loss of Mr. Carteighe, who was a man who could be ill spared, and who would be missed in all parts of the building, but never more than in the School. He had done more for the advancement of the School of Pharmacy than any other man. Mr. Walter Hills, in moving a vote of thanks to the Chairman, also referred touchingly to the loss sustained by the Society in Mr. Carteighe's death. Tea was provided afterwards in the Examination Hall. Tea was provided afterwards in the Examination Hall.

Legal Cases.

PHARMACY ACT.

A case was down for hearing at Merthyr Tydfil County Court on Wednesday, June 22, before Judge J. Bryn Roberts. The Council of the Pharmaceutical Society of Great Britain brought an action against Thos. J. Lloyd, of the Drug-stores, Bargoed, for having sold or kept open his shop for retailing poison contrary to the Pharmacy Act. The case did not, however, come before the Judge, being settled by consent before the Registrar, defendant paying 51.

SHOE FINISHER AND POLISHER.

The case of Quinn v. Quinn was mentioned again to Mr. Justice Parker in the Chancery Division on Thursday, June 23, on the motion for an interim injunction to restrain the de-fendant from dealing with a business for shoe accessories and polishes, etc., at Northampton which plaintiff said belonged to him. It was stated that Mr. Quinn, sen. (plaintiff), commenced business in Boston, Massachusetts, and then opened a shop in this country, putting his son (the defendant) into it as manager. The son, it was alleged, had agreed to sell, or was proposing to enter into a contract to sell, the business to a company under the style of C. A. Quinn & Co.

Mr. Romer, K.C., for the plaintiff, now informed the Court that the motion stood over from June 10 last, when the defendant gave an undertaking not to deal with the except of the houses.

gave an undertaking not to deal with the assets of the business, which included certain secret recipes, except in the bariless, which included certain secret recipes, except in the ordinary course of business. Defendant's evidence had only just come into his (counsel's) hands, so that they had agreed to hold the matter over for another week, defendant still giving the same undertaking.

His Lordship agreed to this arrangement.

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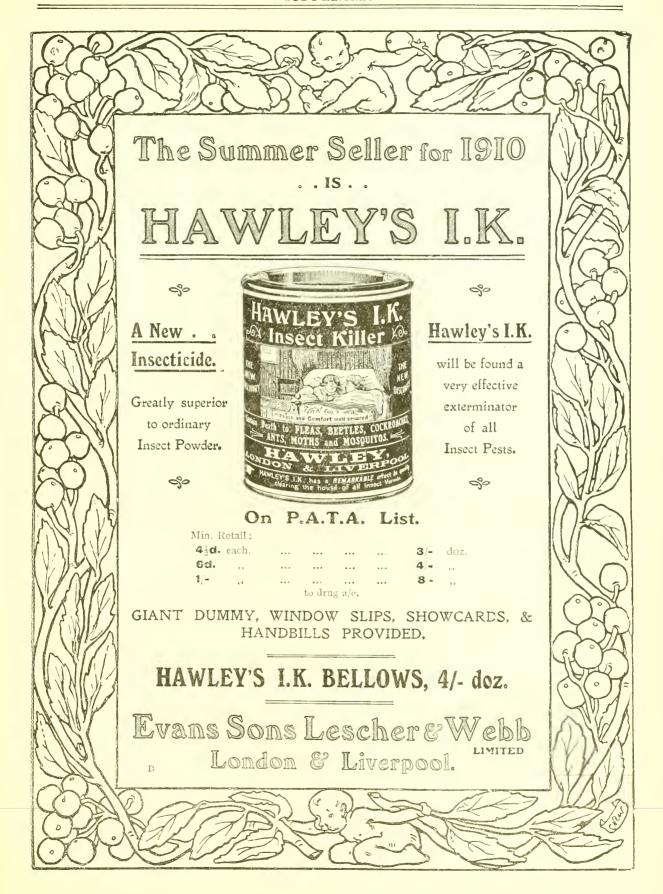
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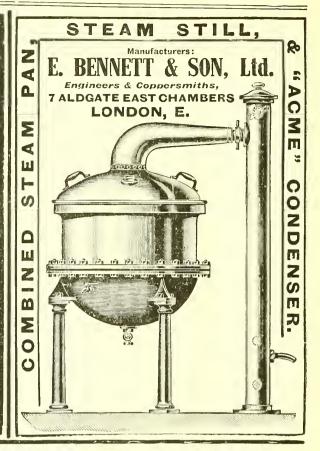


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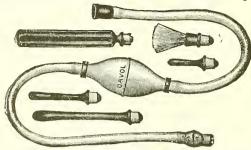
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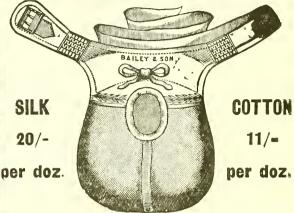
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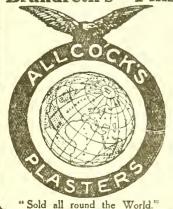
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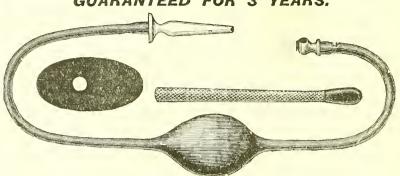
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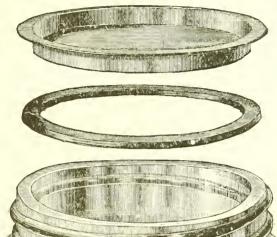
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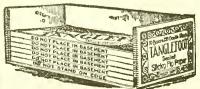
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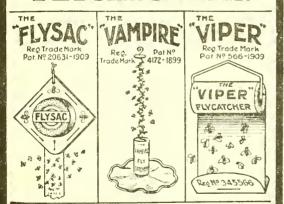


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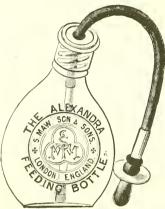
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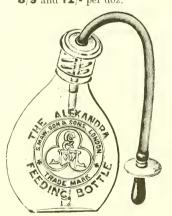
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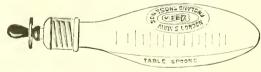


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